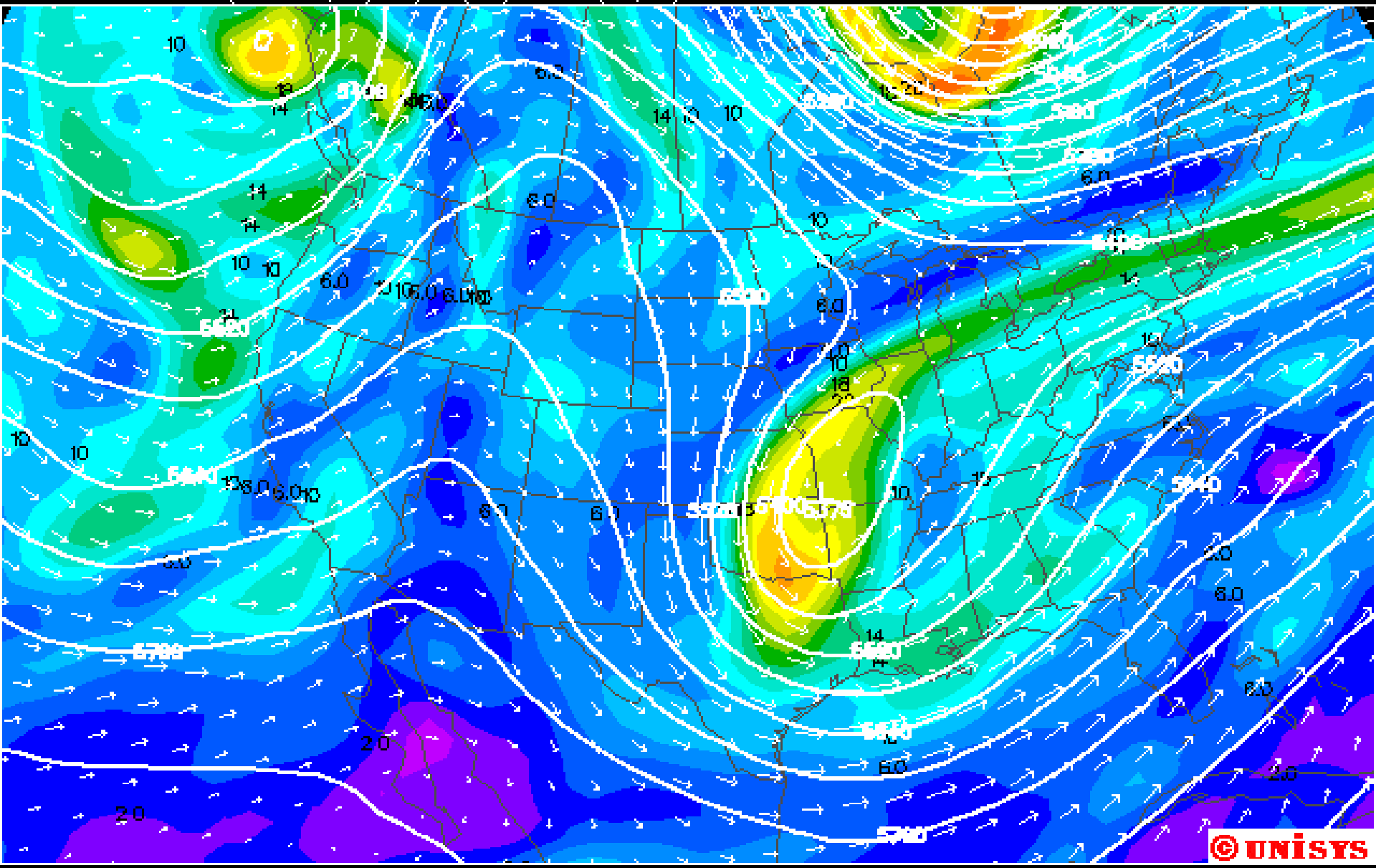
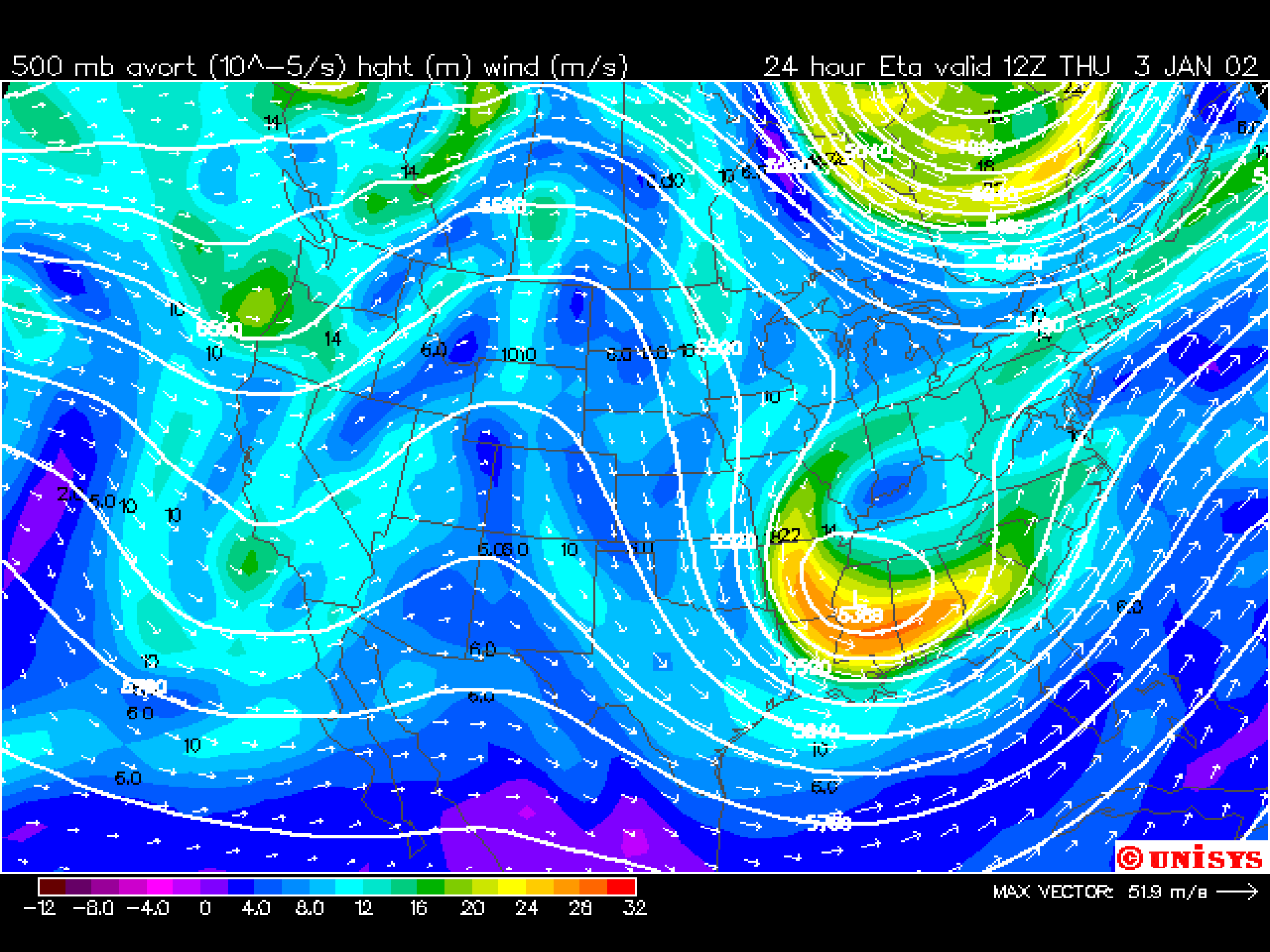
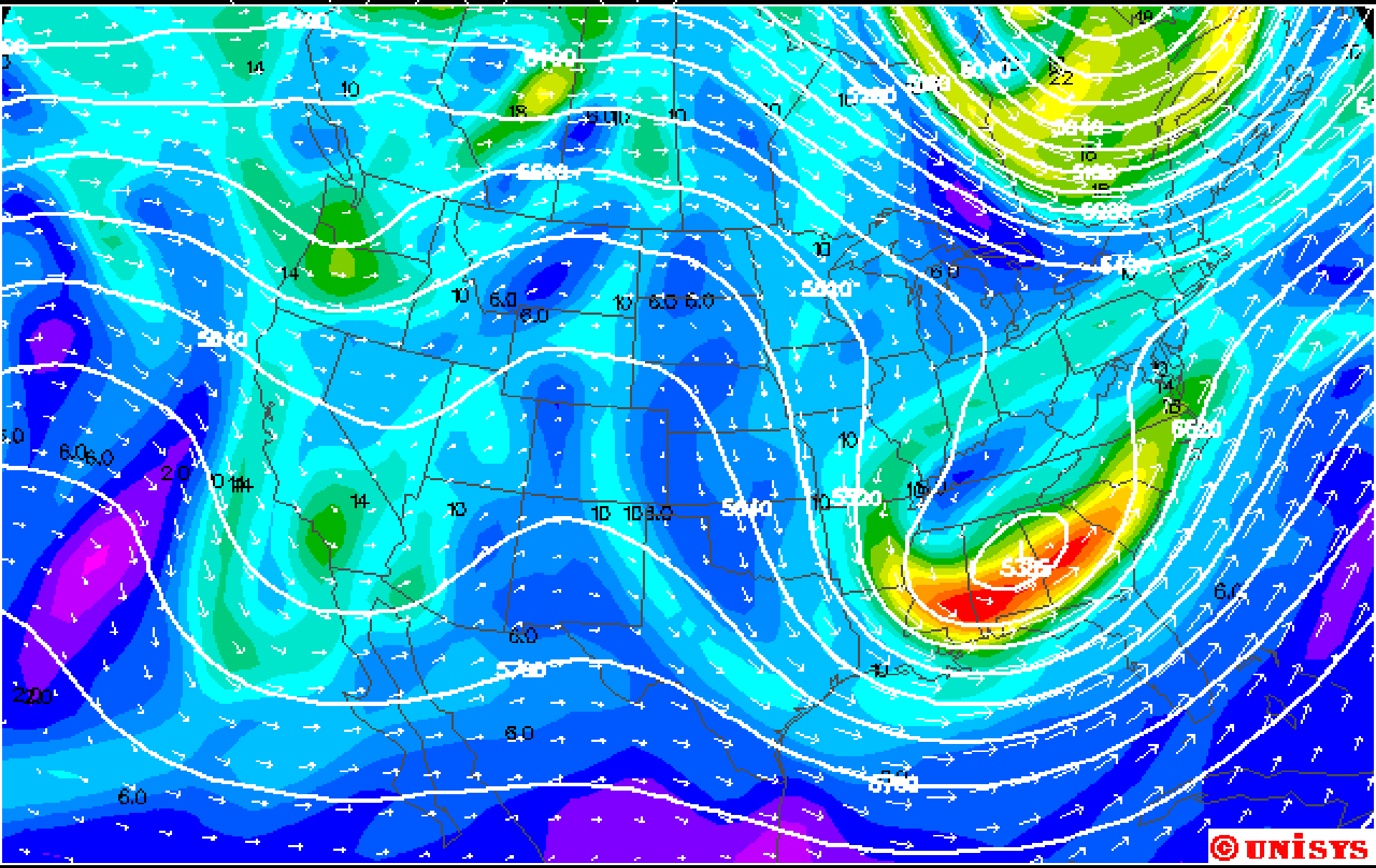
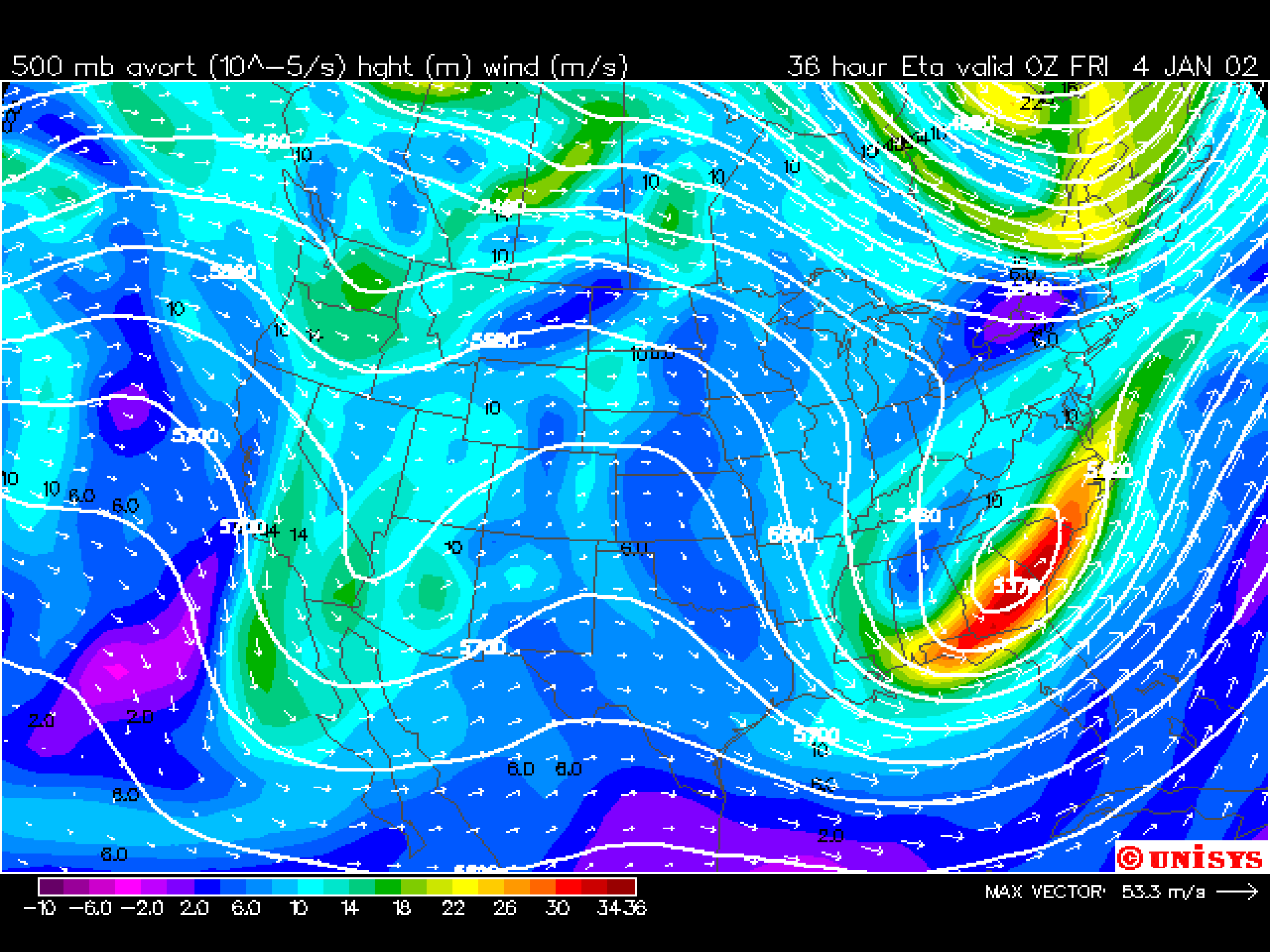
03 JANUARY 2002
WINTER STORM

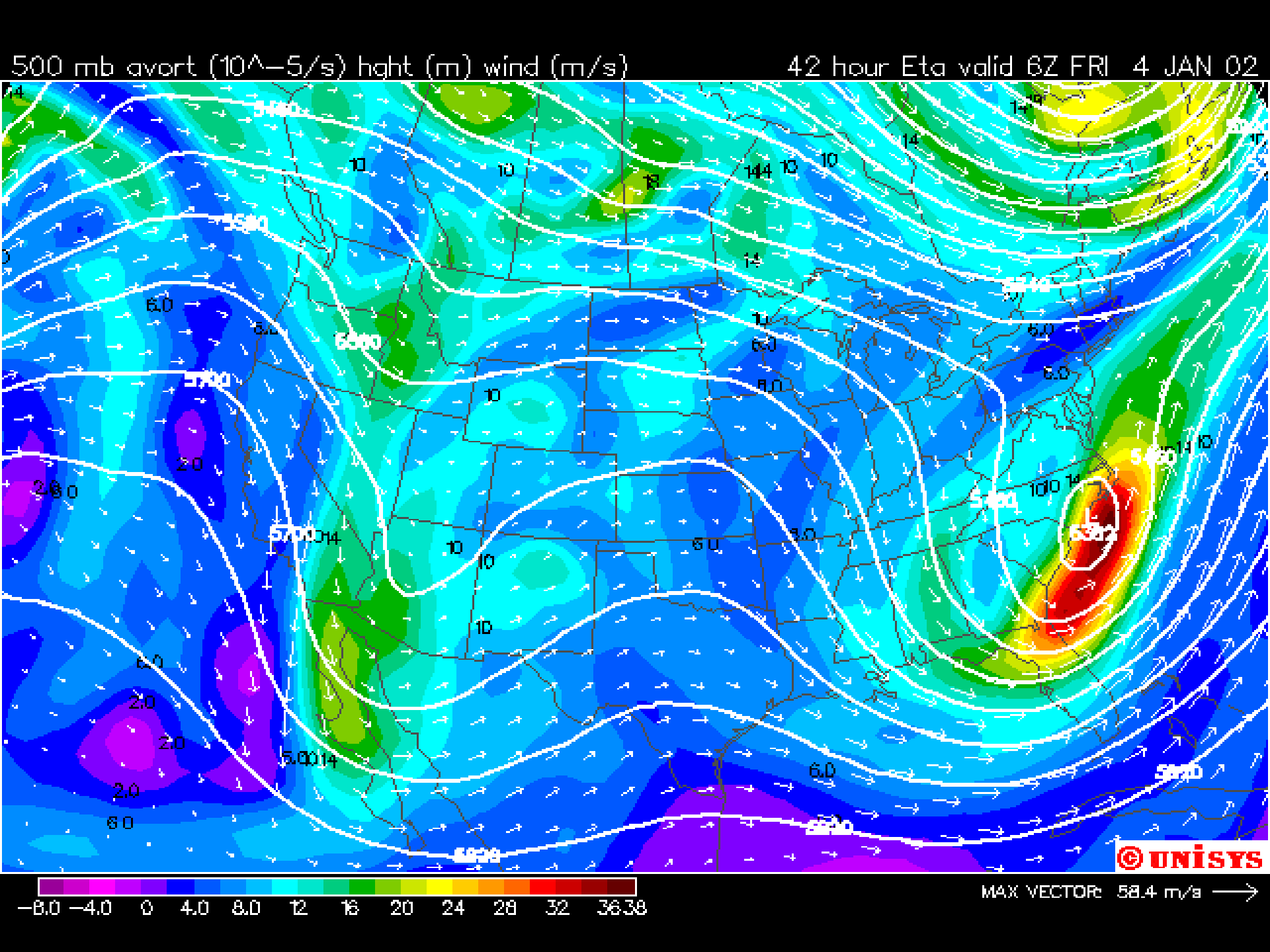
500MB SERIES
02/12Z DATA RUN

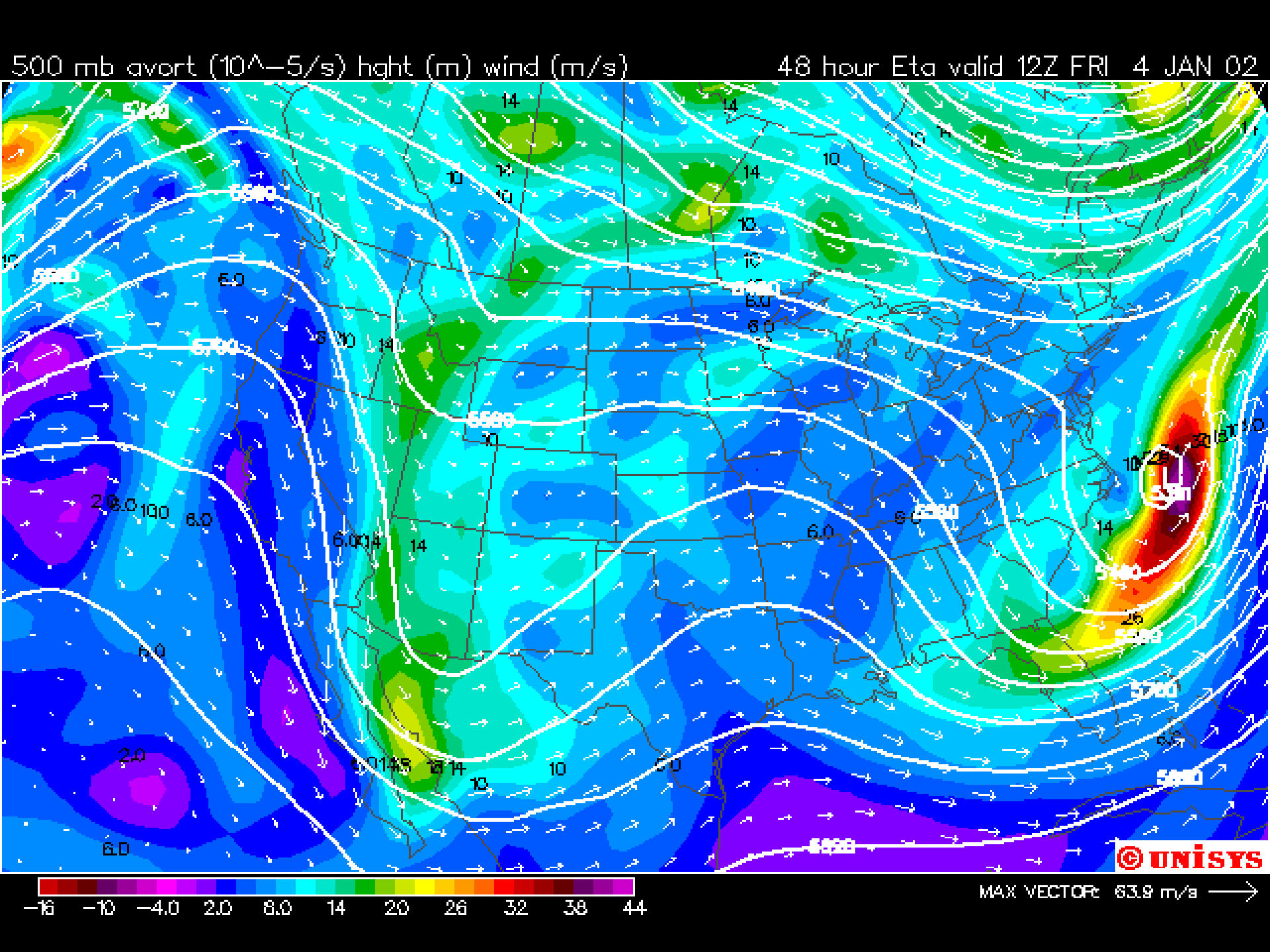

500 mb avort (10^−5/s) hght (m) wind (m/s)
12 hour Eta valid 0Z THU 3 JAN 02
−4.0 0 4.0 8.0 12 16 20 24 28 32
MAX VECTOR: 51.0 m/s
©UNISYS


500 mb avort (10^−5/s) hght (m) wind (m/s)
24 hour Eta valid 12Z THU 3 JAN 02
−12 −8.0 −4.0 0 4.0 8.0 12 16 20 24 28 32
MAX VECTOR: 51.9 m/s
©UNISYS

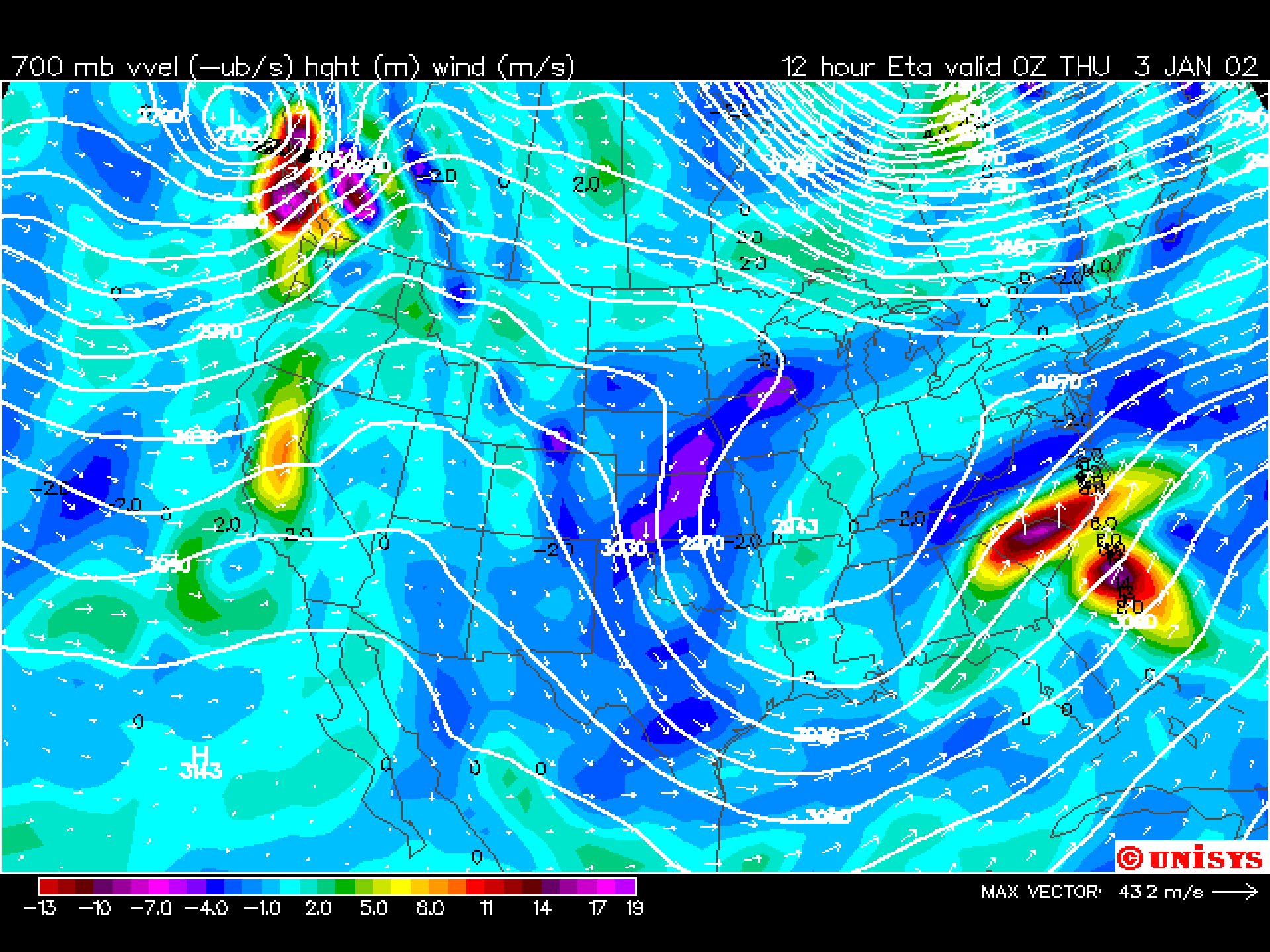

500 mb avort (10^−5/s) hght (m) wind (m/s)
30 hour Eta valid 18Z THU 3 JAN 02
−6.0 −2.0 2.0 6.0 10 14 18 22 26 30 32
MAX VECTOR: 51.2 m/s
©UNISYS

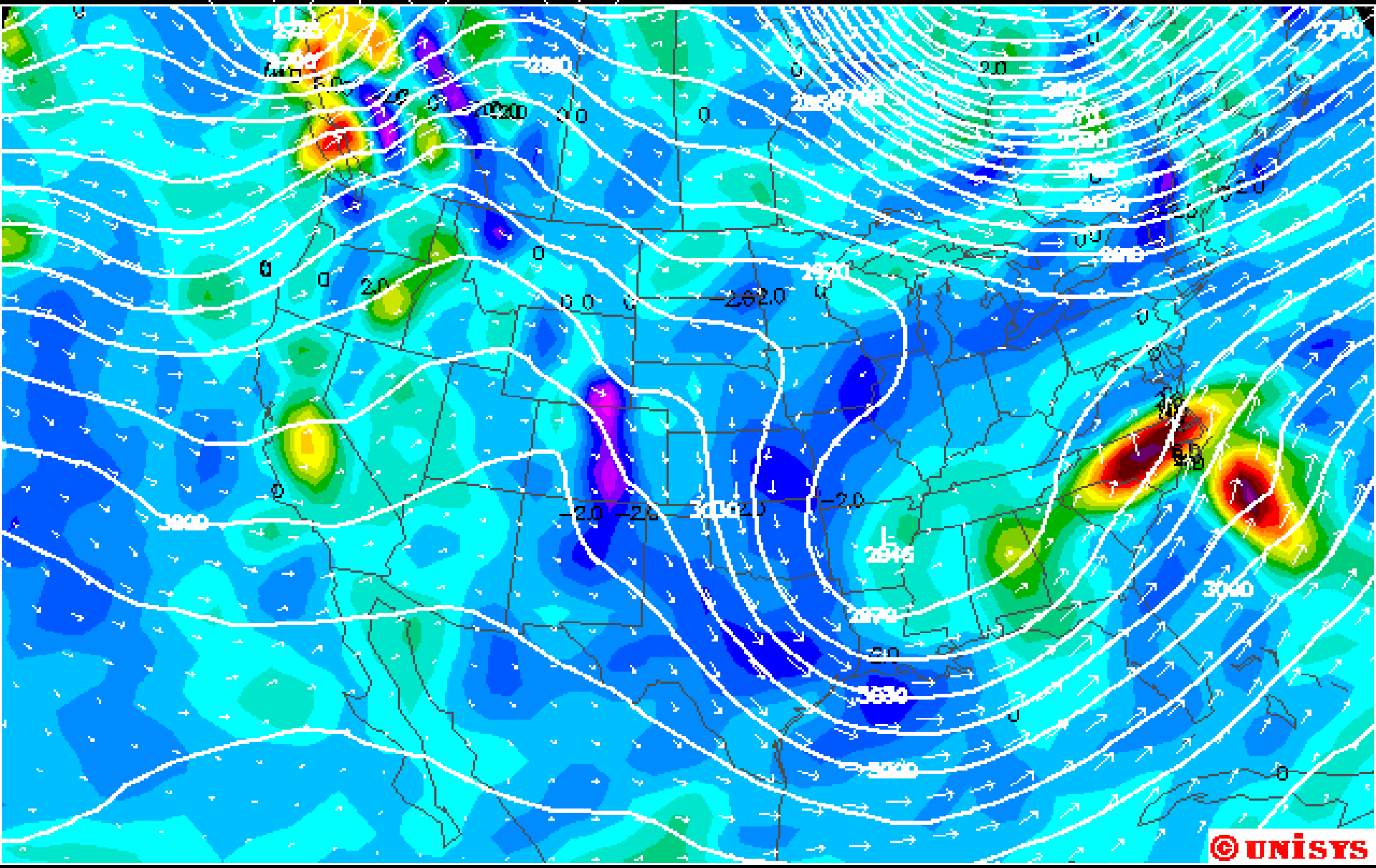

500 mb avort (10^-5/s) hght (m) wind (m/s)
36 hour Eta valid 0Z FRI 4 JAN 02
-10 -6.0 -2.0 2.0 6.0 10 14 18 22 26 30 34.36
MAX VECTOR 53.3 m/s
©UNISYS

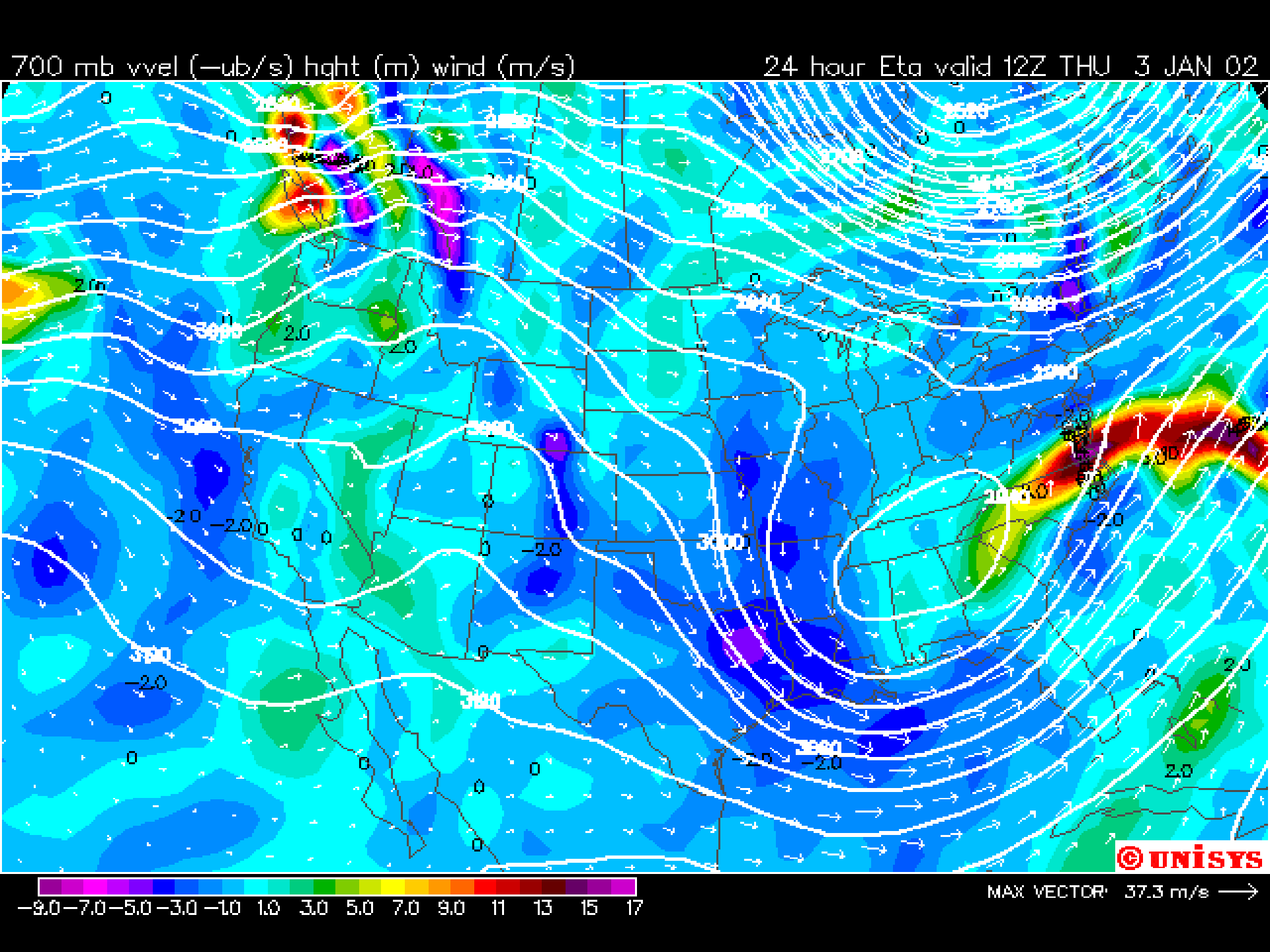

500 mb avort (10^-5/s) hght (m) wind (m/s)
42 hour Eta valid 6Z FRI 4 JAN 02
-8.0 -4.0 0 4.0 8.0 12 16 20 24 28 32 36 38
MAX VECTOR 58.4 m/s
©UNISYS

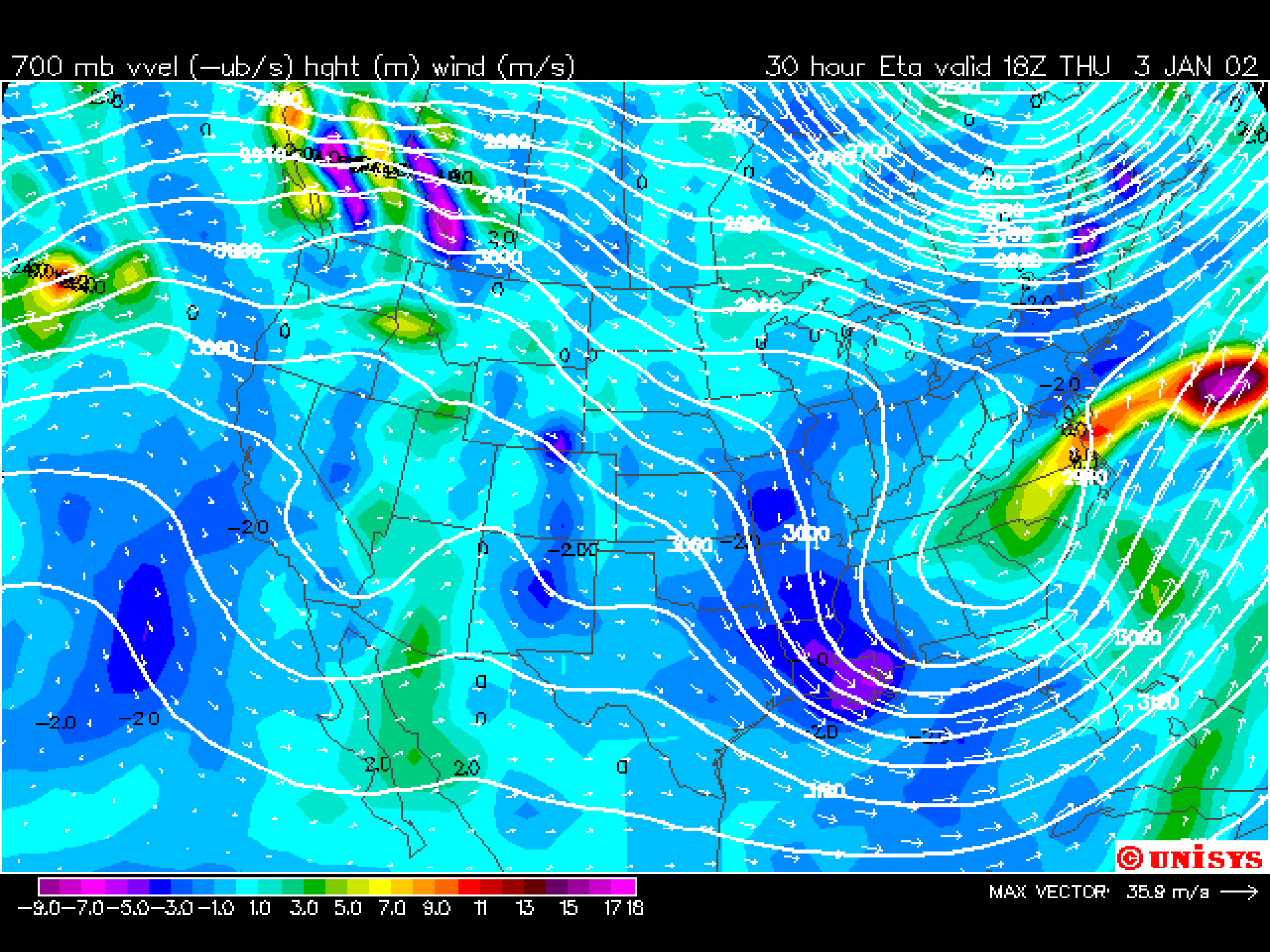

500 mb avort (10^−5/s) hght (m) wind (m/s)
48 hour Eta valid 12Z FRI 4 JAN 02
−16 −10 −4.0 2.0 8.0 14 20 26 32 38 44
MAX VECTOR: 63.9 m/s
©UNISYS

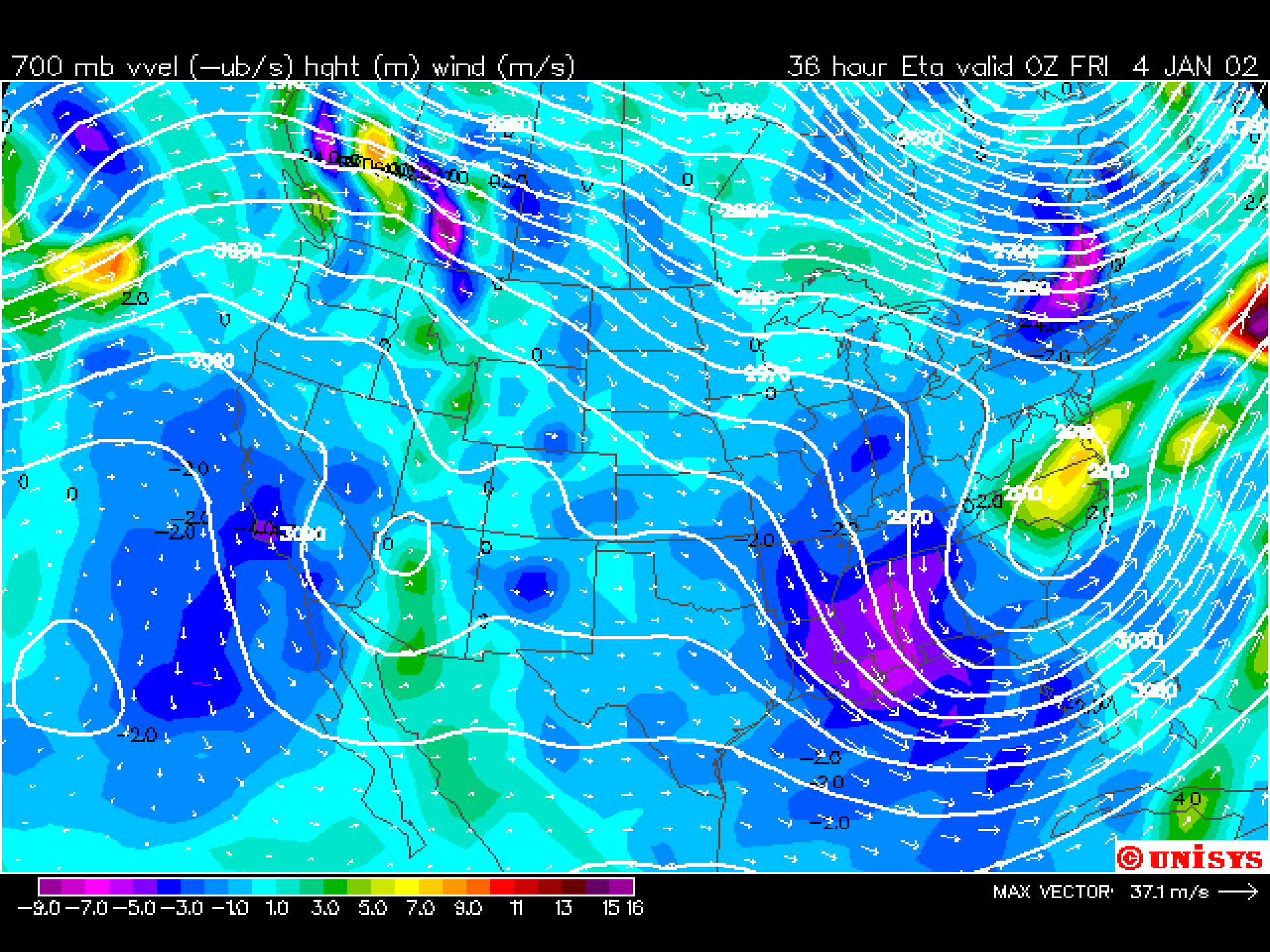
700MB SERIES
02/12Z DATA RUN

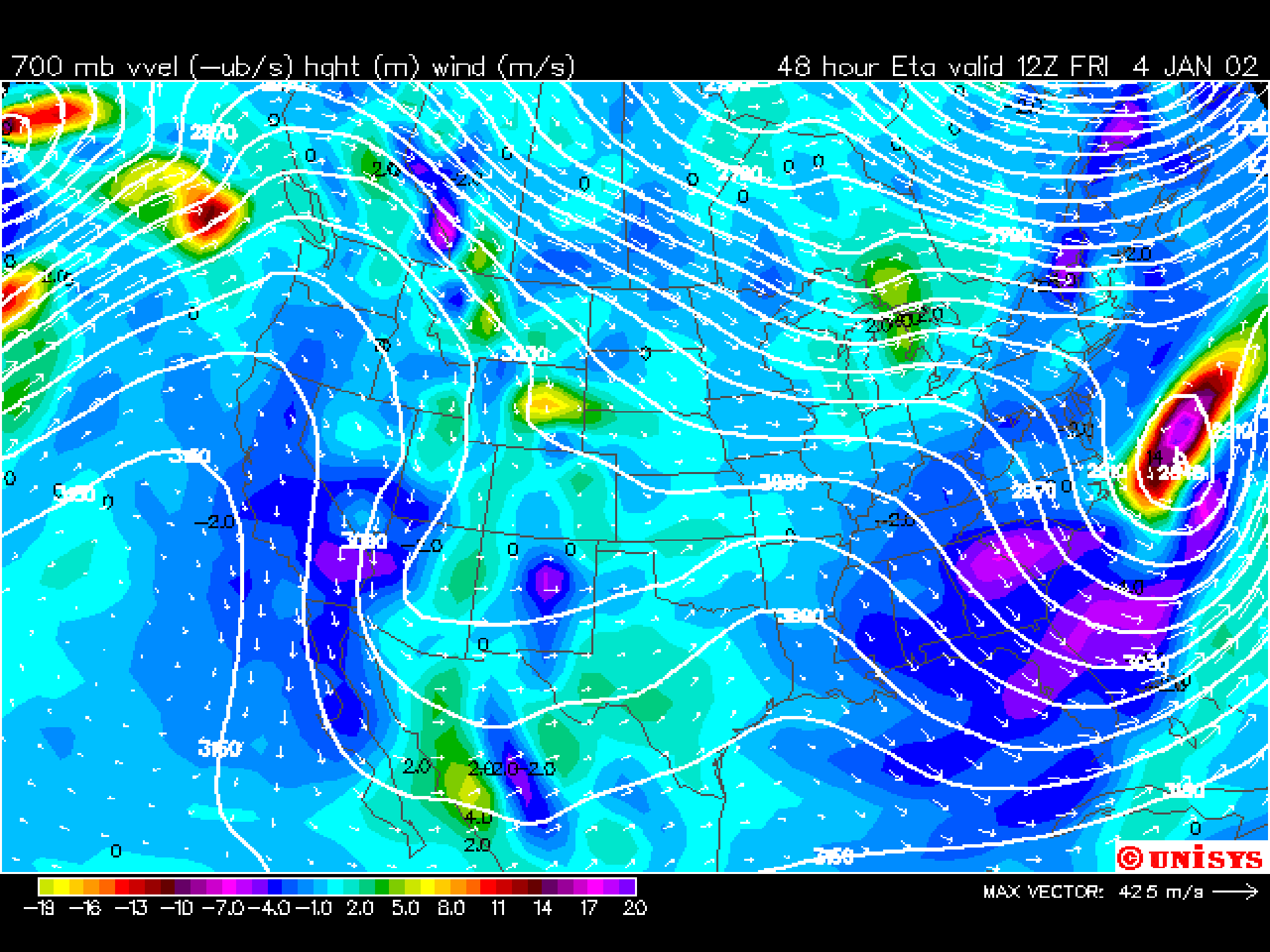

700 mb vvel (-ub/s) hght (m) wind (m/s)
12 hour Eta valid 0Z THU 3 JAN 02
-13 -10 -7.0 -4.0 -1.0 2.0 5.0 8.0 11 14 17 19
MAX VECTOR 43.2 m/s
©UNISYS


700 mb vvel (-ub/s) hght (m) wind (m/s)
18 hour Eta valid 6Z THU 3 JAN 02
-8.0 -6.0 -4.0 -2.0 0 2.0 4.0 6.0 8.0 10 12 14 16 18 20
MAX VECTOR: 414 m/s
©UNISYS


700 mb vvel (-ub/s) hght (m) wind (m/s)
24 hour Eta valid 12Z THU 3 JAN 02
-9.0 -7.0 -5.0 -3.0 -1.0 1.0 3.0 5.0 7.0 9.0 11 13 15 17
MAX VECTOR 37.3 m/s
©UNISYS


700 mb vvel (-ub/s) hght (m) wind (m/s)
30 hour Eta valid 18Z THU 3 JAN 02
-9.0 -7.0 -5.0 -3.0 -1.0 1.0 3.0 5.0 7.0 9.0 11 13 15 17 18
MAX VECTOR 35.9 m/s
©UNISYS


700 mb vvel (—ub/s) hght (m) wind (m/s)
36 hour Eta valid 0Z FRI 4 JAN 02
-9.0 -7.0 -5.0 -3.0 -1.0 1.0 3.0 5.0 7.0 9.0 11 13 15 16
MAX VECTOR 37.1 m/s
©UNISYS


700 mb vvel (−ub/s) hght (m) wind (m/s)
48 hour Eta valid 12Z FRI 4 JAN 02
−19 −16 −13 −10 −7.0 −4.0 −1.0 2.0 5.0 8.0 11 14 17 20
MAX VECTOR: 42.5 m/s
©UNISYS

VERTICAL VELOCITY ON THE 700MB MODEL PROGS

Wind flows in the horizontal at a much higher average wind spe
vertical. Vertical motion is roughly two orders of magnitude sm
horizontal motion. Wind speeds in the horizontal are commonly
at some point in the atmosphere above a location. The average
speed is only a few centimeters per second!!! This seems outra
considering thunderstorm updrafts can have vertical velocities
per hour. The deal is, thunderstorms only encompass a tiny sur
earth compared to regions not having thunderstorms.

Well less than 1% of the time are vertical velocities greater tha

hour above any point location. All the uplift from low pressure

only produce vertical upglide of a few to sometimes greater tha

per second on the synoptic scale. That's it. Why then does it rai

Well, an uplift of 6 centimeters per second leads to a pretty sig

given enough time. In fact, moving 6 centimeters per second in

216 meters of vertical distance. Give it a few hours, and that pa

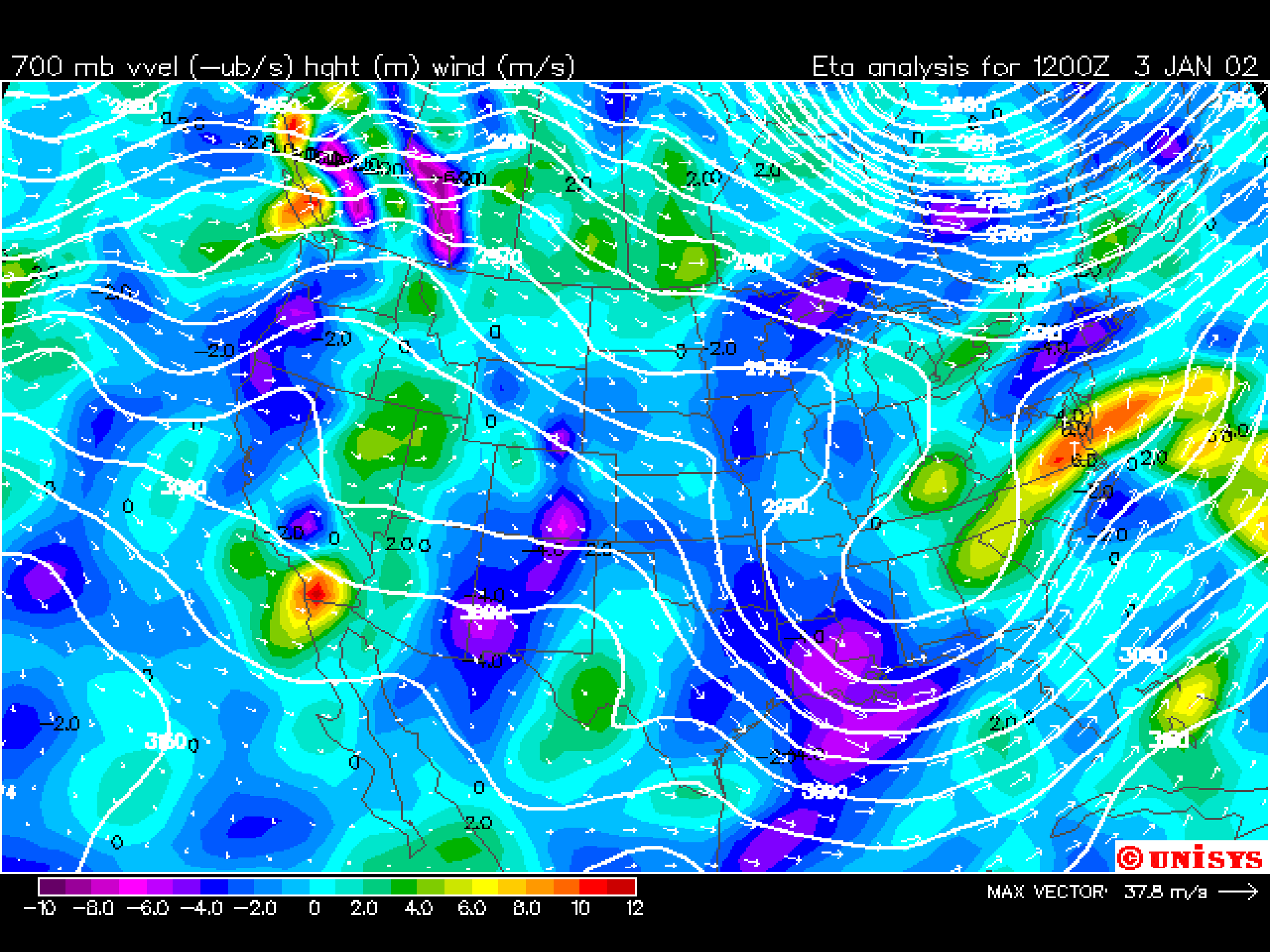
in the vertical over a kilometer. An upward vertical velocity of ju

per second can produce a large volume of precipitation if the m

to be condensed. Lets apply upward vertical velocity to interpre

scale forecast models (ETA, NGM, AVN, ect.). Upward vertical ve

plotted on the 700-mb prog.


700 mb vvel (−ub/s) hght (m) wind (m/s)
Eta analysis for 1200Z 3 JAN 02
−10 −8.0 −6.0 −4.0 −2.0 0 2.0 4.0 6.0 8.0 10 12
MAX VECTOR 37.8 m/s
©UNISYS

You will see a panel full of colors, wind vectors, and height cont

are the upward and downward vertical velocities. Notice the col

panel. The scale will range from the lowest to highest forecaste

vertical velocity on the panel. On the legend at the top you will

This stands for negative microbars per second. The negative sig

because pressure decreases with height in our atmosphere (usu

graphing, up is positive, but in this case, up leads to LOWER pr

ub/s is made negative so upward vertical velocity can be given a

What is a ub/s anyway? A bar of pressure is equal to 1000 millib

(called a microbar), is a millionth of a bar and a thousandth of a

You probably know that a thousandth of a bar is a millibar. This

small pressure change over time but can lead to large changes

given enough time.

The model is using pressure as vertical distance instead of heig

as the math works out, a ub/s is just about the same vertical vel

centimeter per second. A vertical velocity of 6 -ub/s is significan

vertical velocity of 10 or greater is very significant (also need m

look at the 700 mb forecast panel you will notice bullseyes of up

velocity (denoted UVV for short). These are regions where mech

as low level WAA, low level convergence, PVA, jet streak diverge

uplift, etc. are causing the air to rise in the vertical. Sinking me

as CAA, downsloping and NVA causes downward VV's. The vertic

value for any one point is the compilation of ALL upward and do

vertical velocities added and subtracted at that point. UVV will

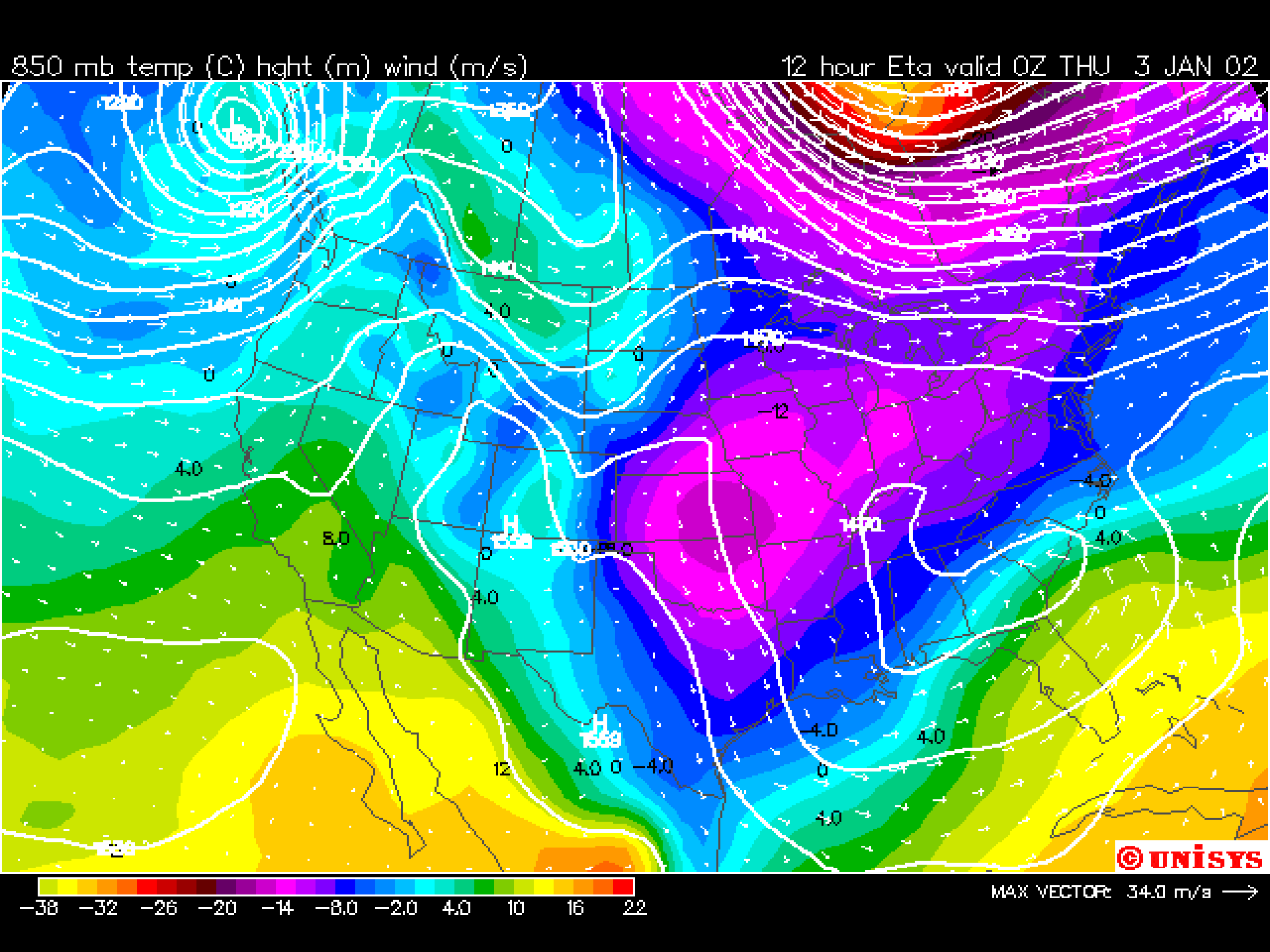
in regions lacking downward VV mechanisms while having uplif

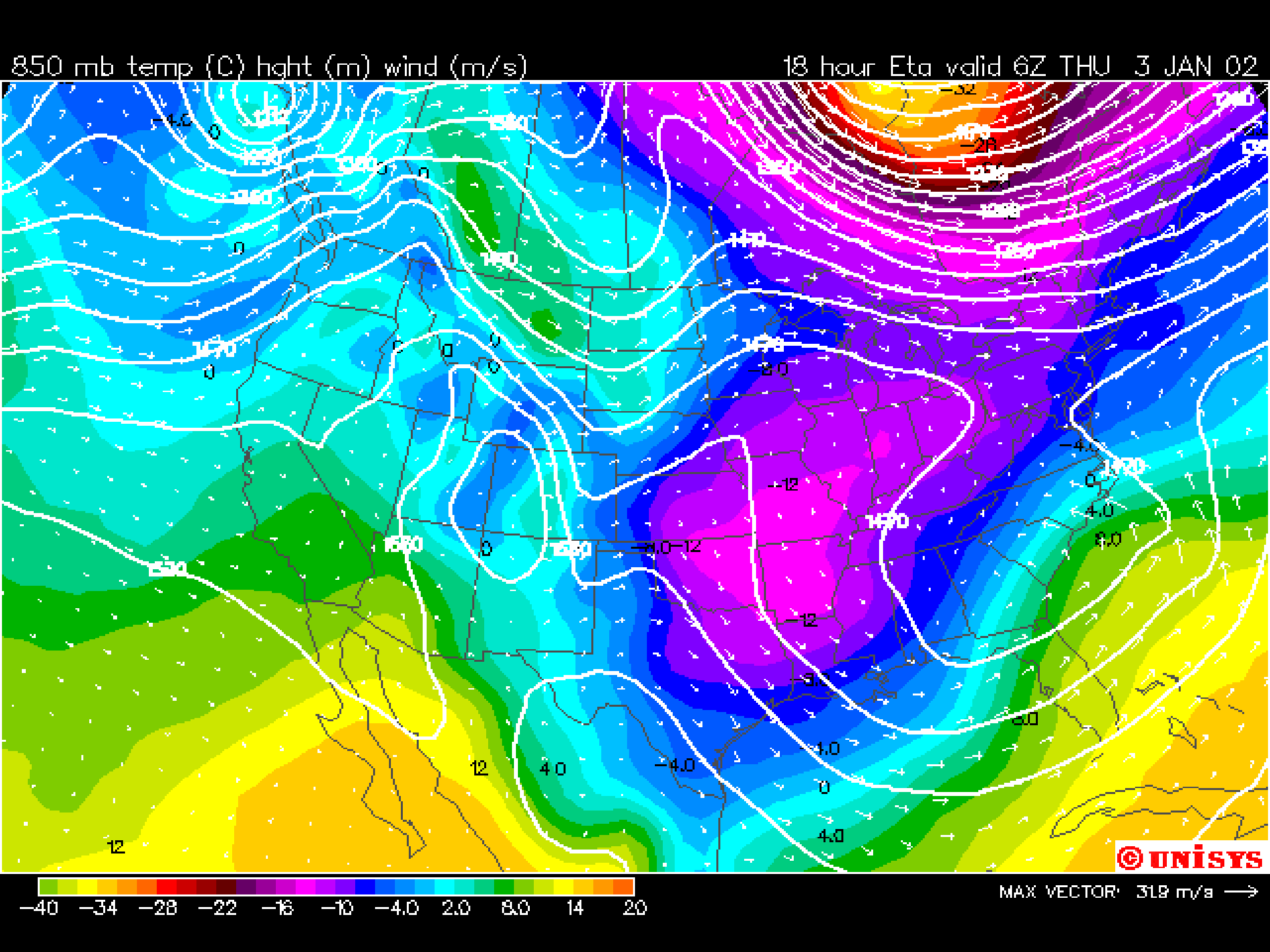
in place. The average of all upward and downward motions is ze

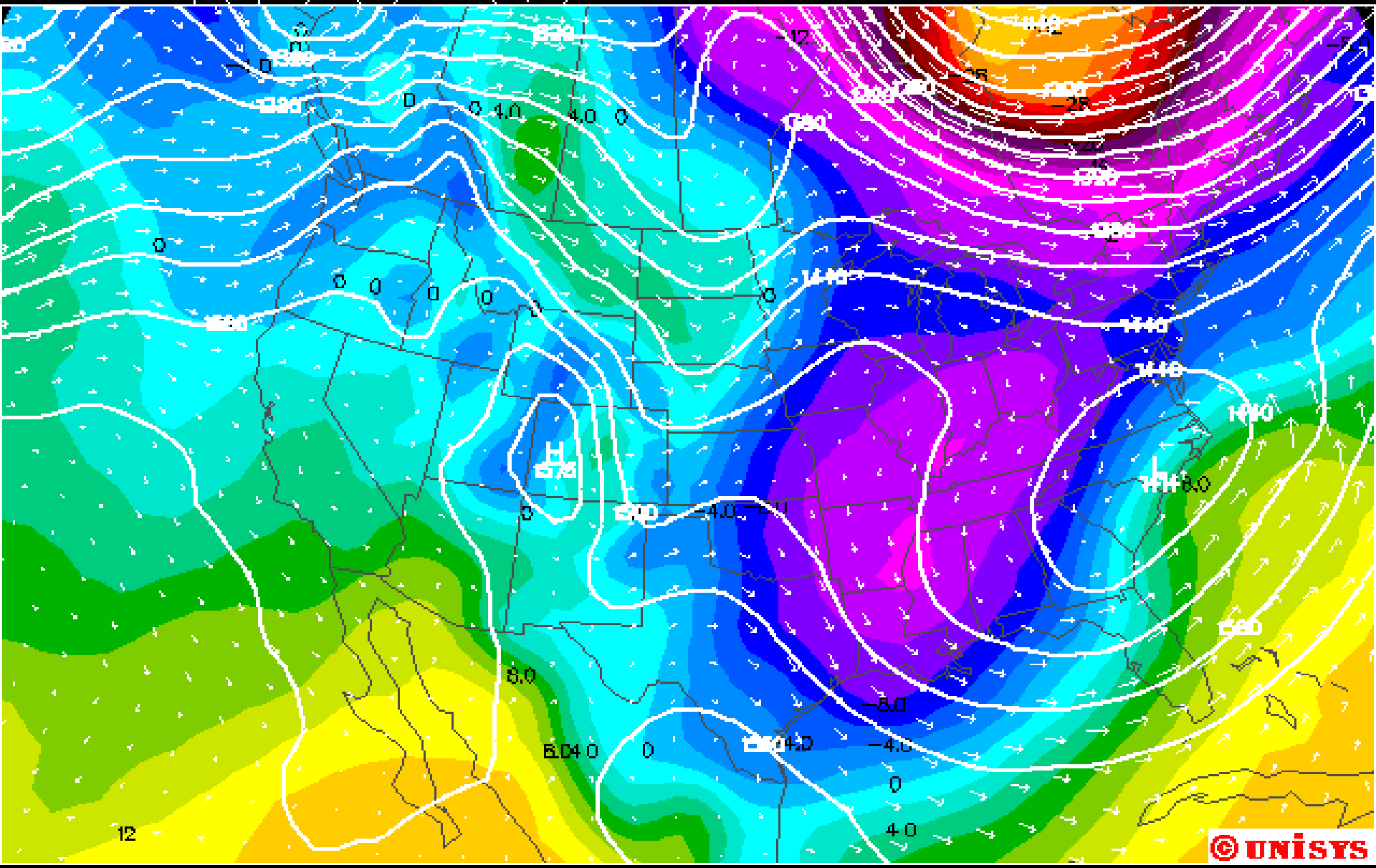
across the entire earth.

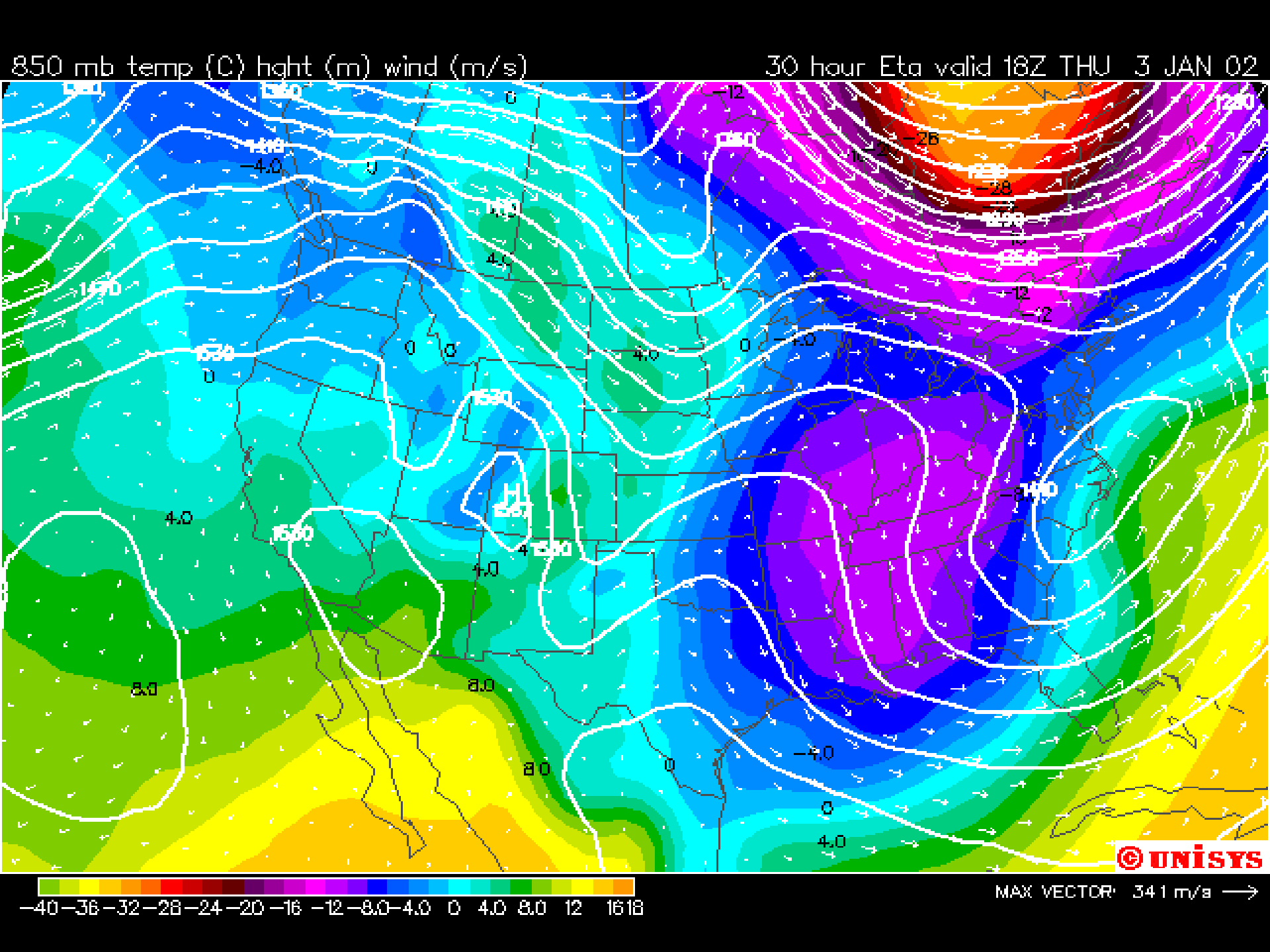
If upward motion constantly were larger than downward motio atmosphere would lose its mass. There is a conservation of mas atmosphere; What air goes up, eventually has to come back do notice that by a real coverage, the regions of near zero and neg velocity (downward motion) encompass a larger area than the r experiencing UVV. Also, the UVV maximums tend to be higher i magnitude than the DVV maximums. This is partly because hig encompasses a larger region than low-pressure regions. Having area of downward motion is offset by a smaller but more intens motion; In the end, the mass of the atmosphere is conserved.

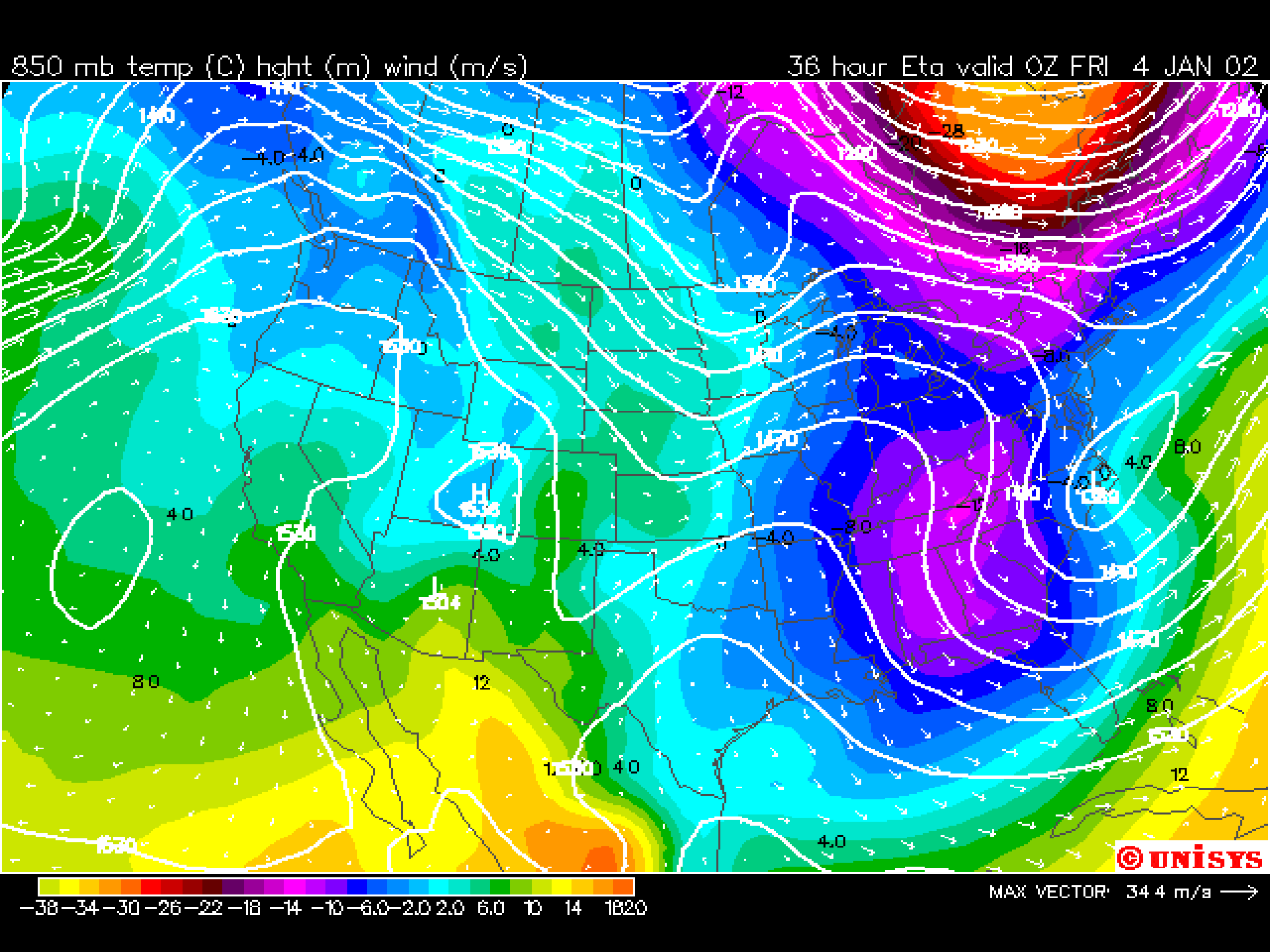
850MB SERIES
02/12Z DATA RUN

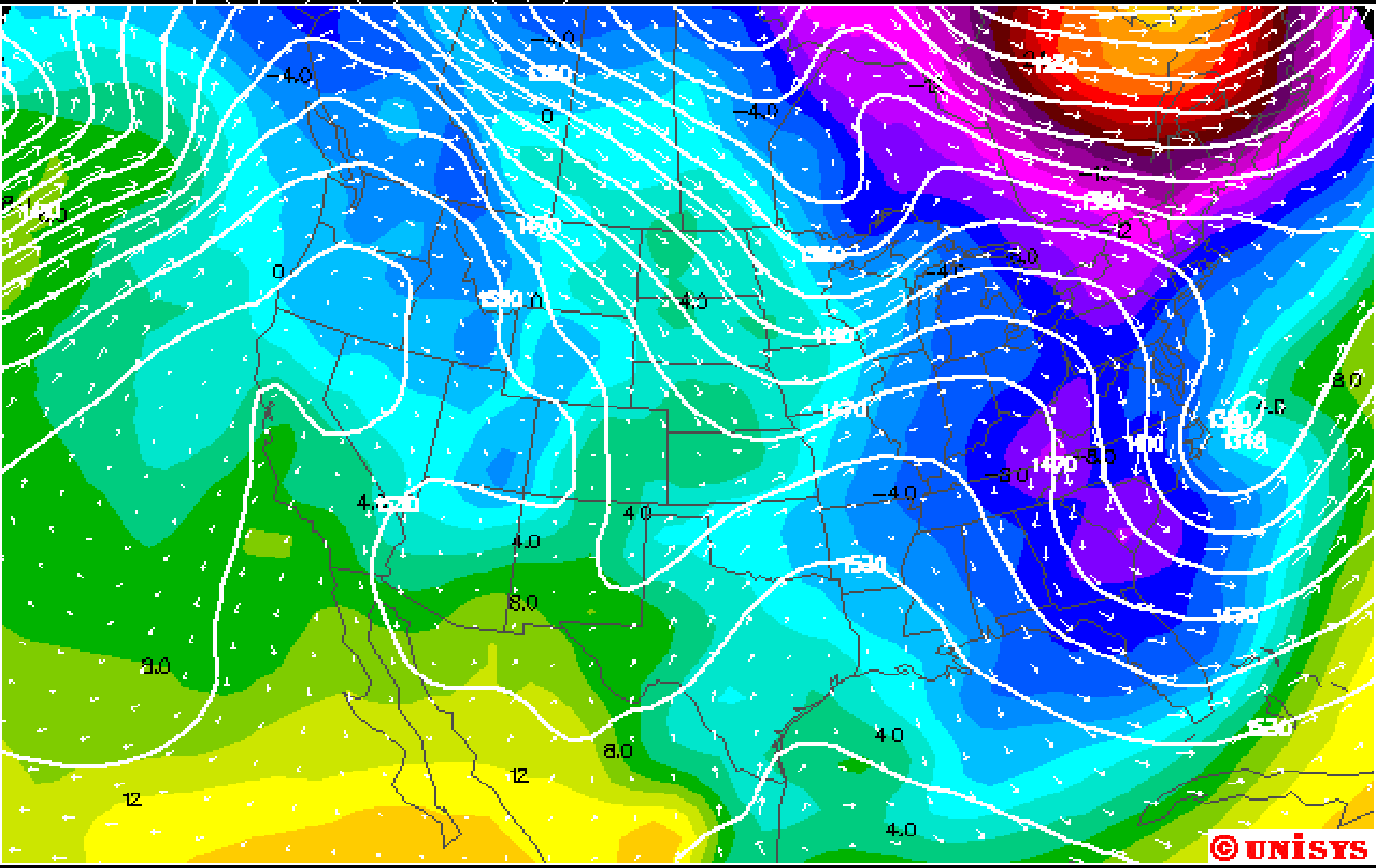

850 mb temp (C) hght (m) wind (m/s)
12 hour Eta valid 0Z THU 3 JAN 02
-38 -32 -26 -20 -14 -8.0 -2.0 4.0 10 16 22
MAX VECTOR: 34.0 m/s
©UNISYS


850 mb temp (C) hght (m) wind (m/s)
18 hour Eta valid 6Z THU 3 JAN 02
-40 -34 -28 -22 -16 -10 -4.0 2.0 8.0 14 20
MAX VECTOR 31.9 m/s
©UNISYS


850 mb temp (C) hght (m) wind (m/s)
24 hour Eta valid 12Z THU 3 JAN 02
-40 -36 -32 -28 -24 -20 -16 -12 -8.0 -4.0 0 4.0 8.0 12 16 18
MAX VECTOR: 31.8 m/s
©UNISYS


850 mb temp (C) hght (m) wind (m/s)
30 hour Eta valid 18Z THU 3 JAN 02
-40 -36 -32 -28 -24 -20 -16 -12 -8.0 -4.0 0 4.0 8.0 12 16 18
MAX VECTOR 34.1 m/s
©UNISYS


850 mb temp (C) hght (m) wind (m/s)
36 hour Eta valid 0Z FRI 4 JAN 02
-38 -34 -30 -26 -22 -18 -14 -10 -6.0 -2.0 2.0 6.0 10 14 18 20
MAX VECTOR 34.4 m/s
©UNISYS


850 mb temp (C) hght (m) wind (m/s)
42 hour Eta valid 6Z FRI 4 JAN 02
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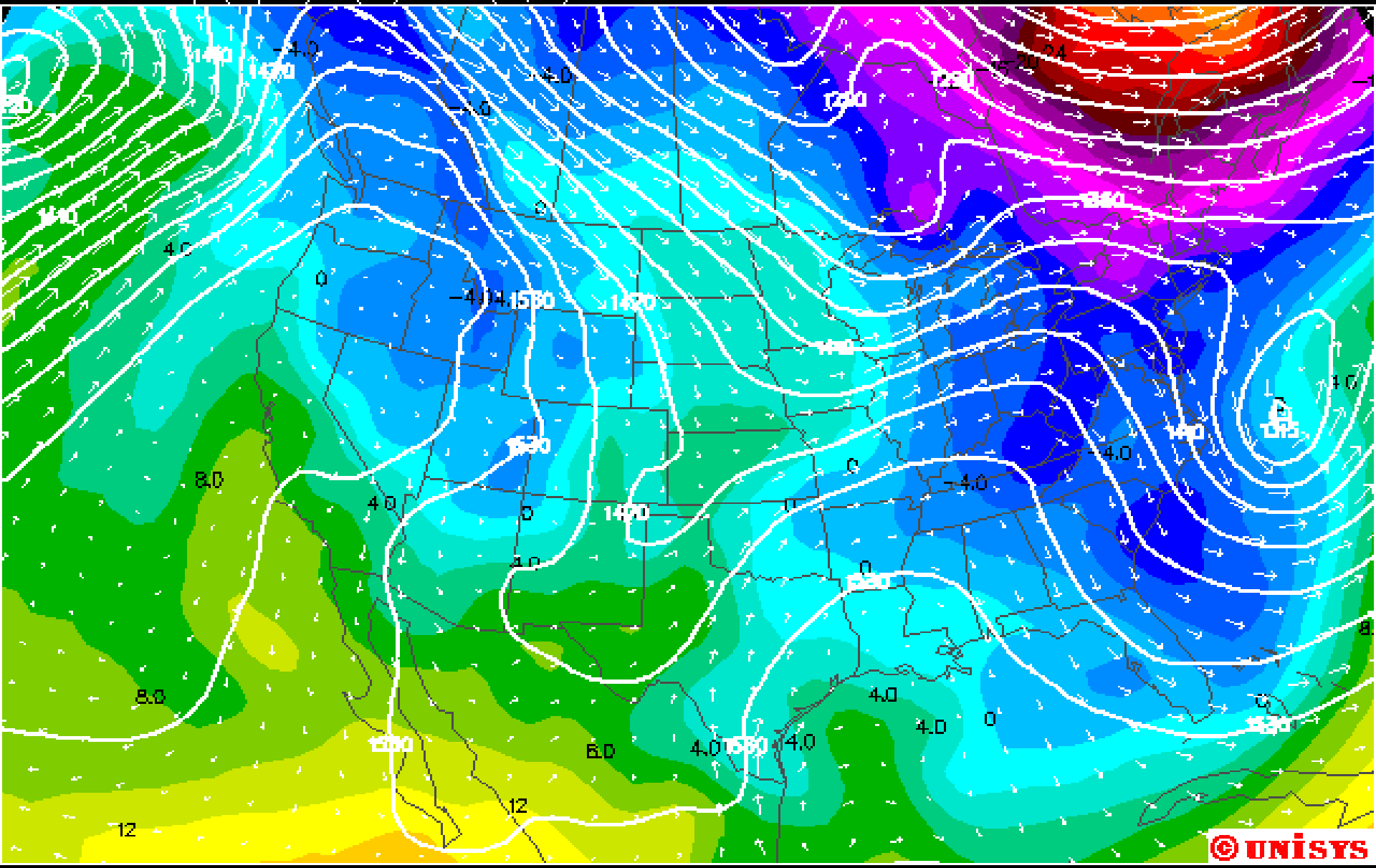
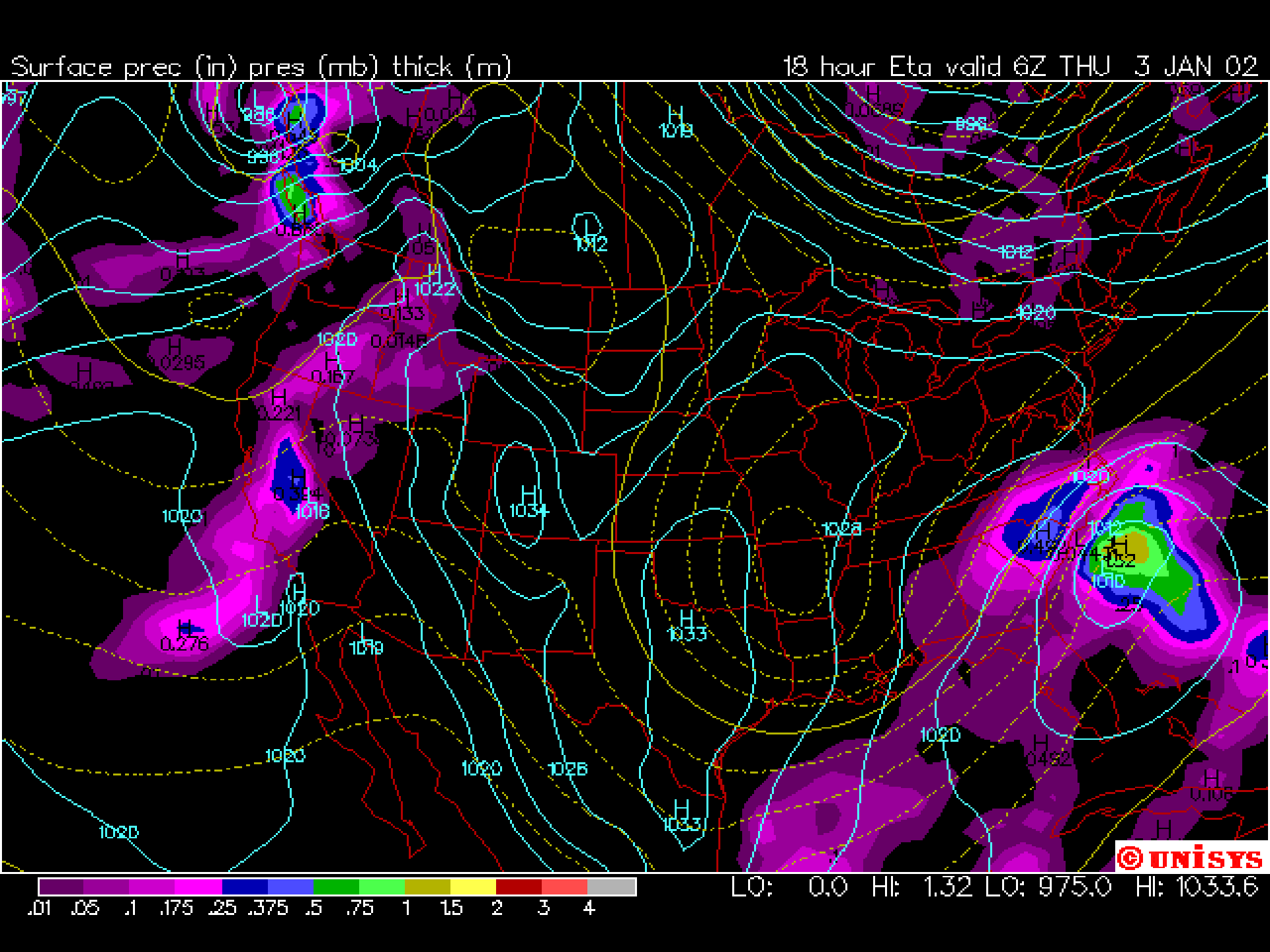
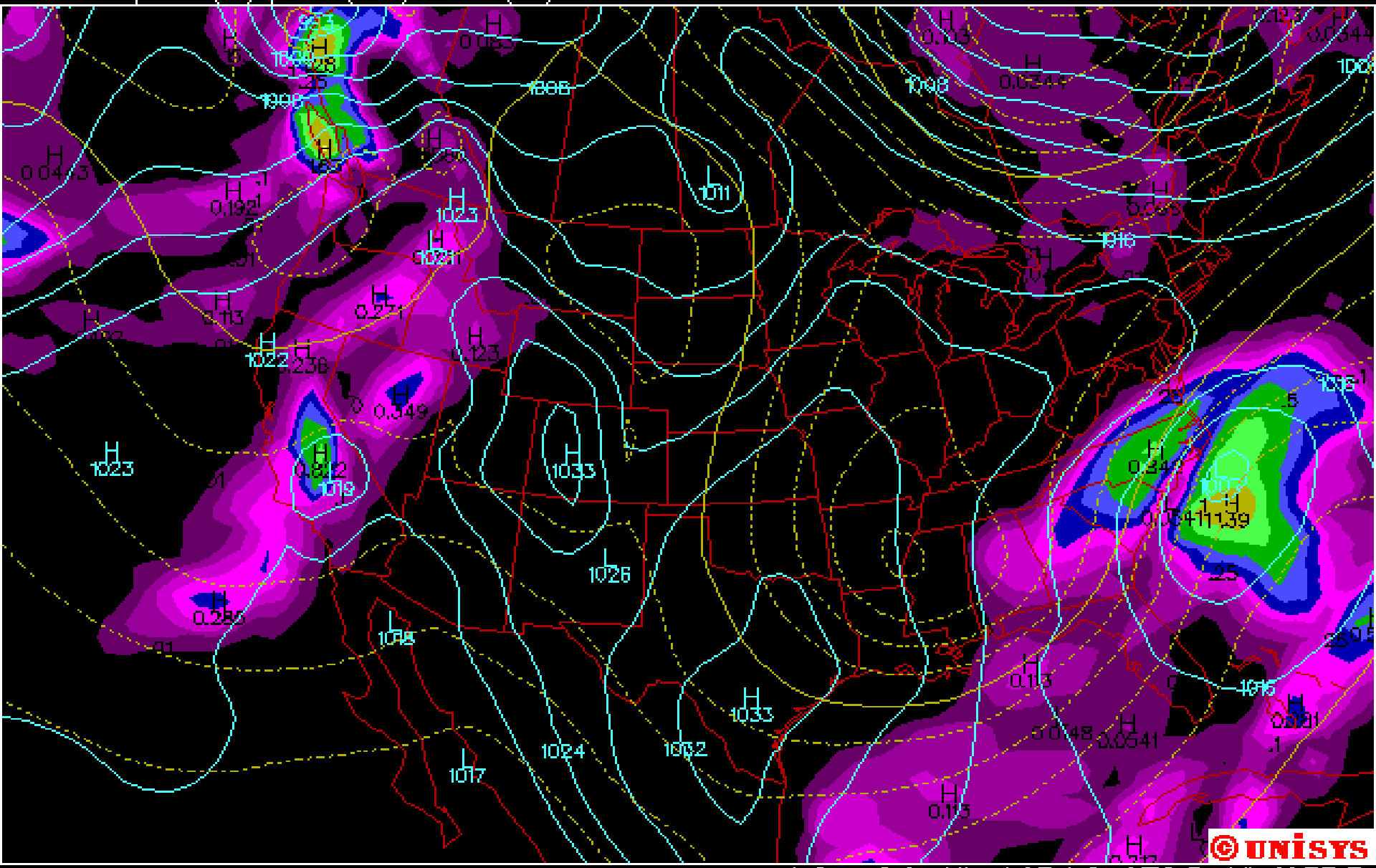
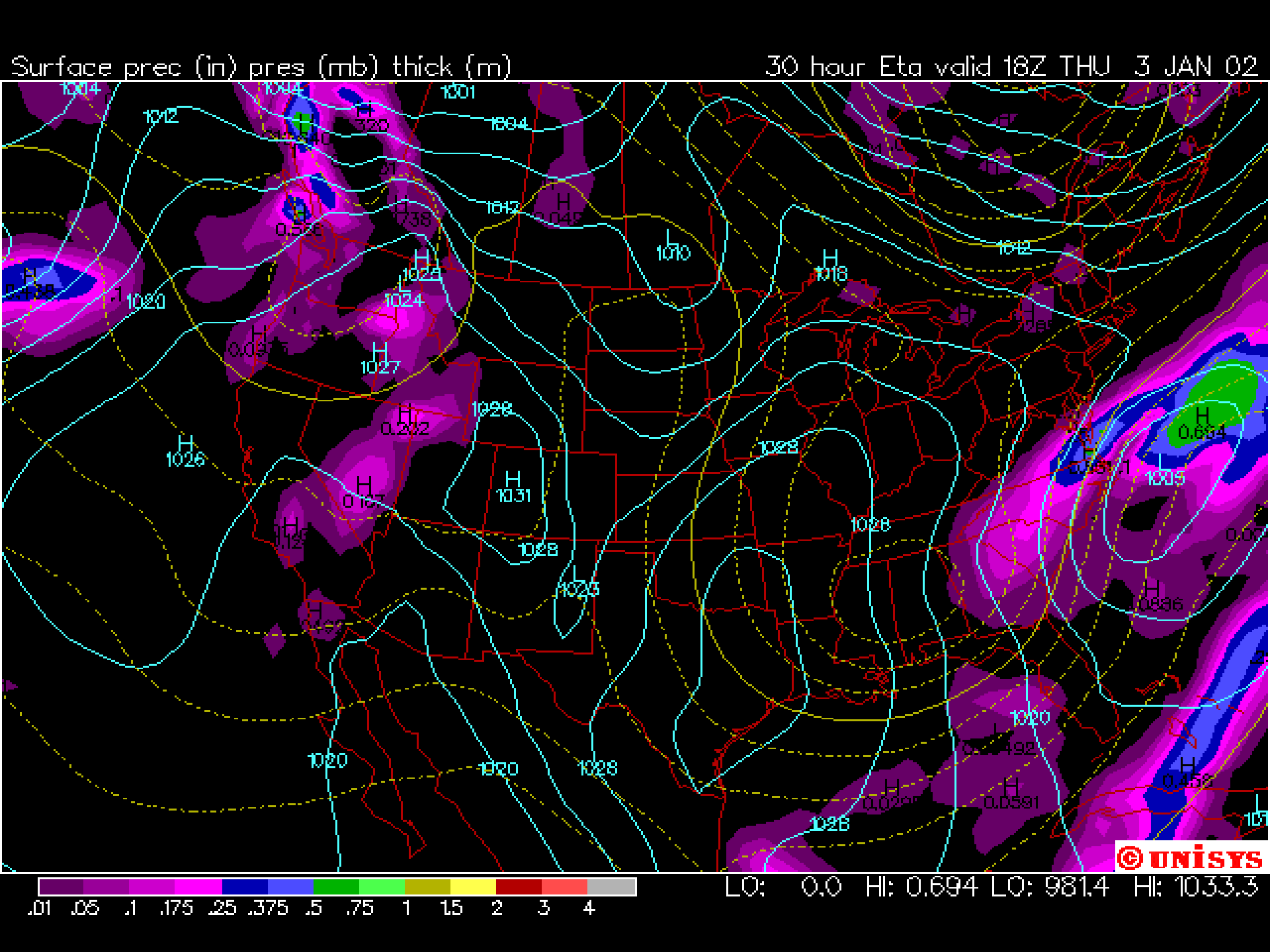
MAX VECTOR: 39.6 m/s
©UNISYS

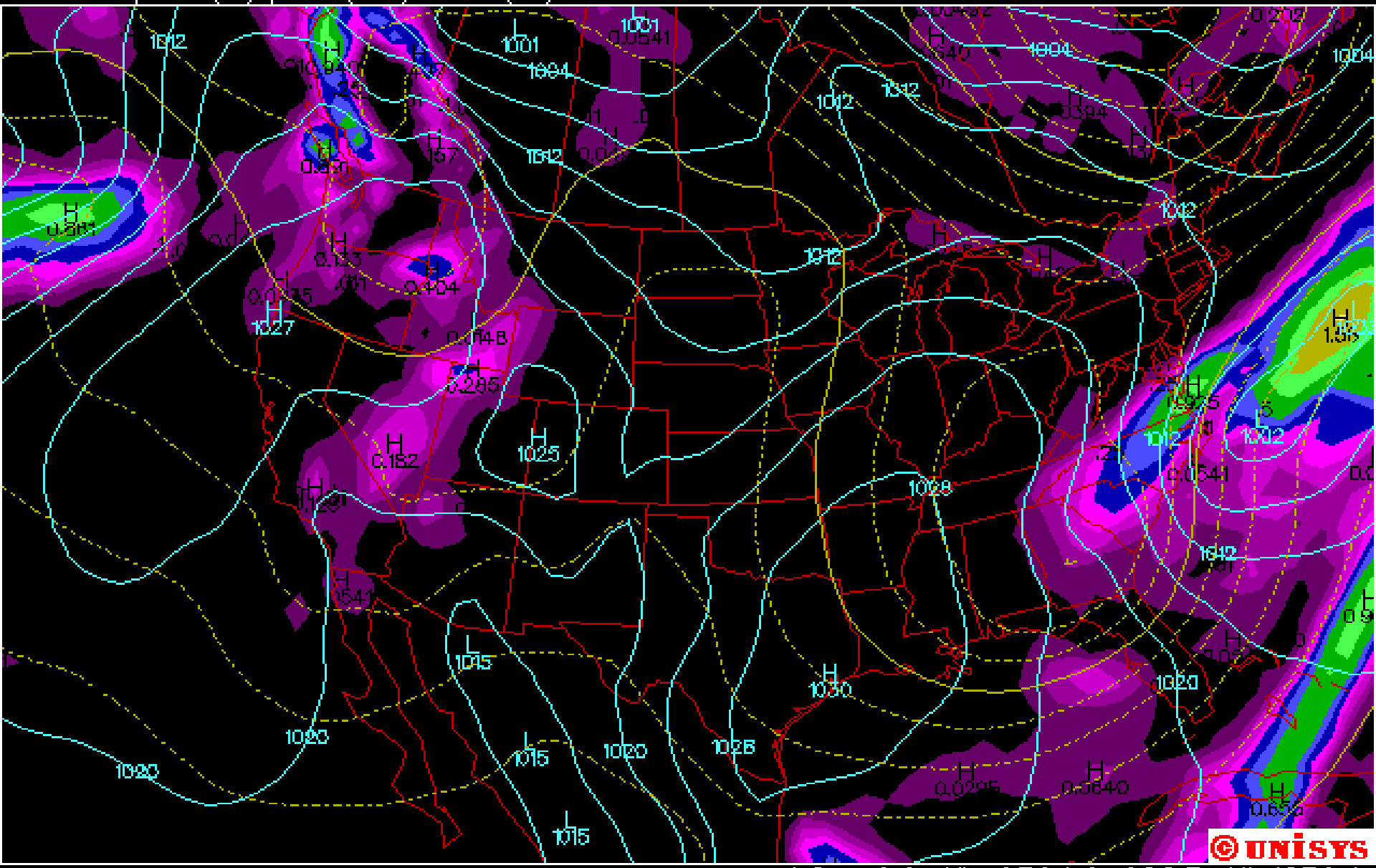

850 mb temp (C) hght (m) wind (m/s)
48 hour Eta valid 12Z FRI 4 JAN 02
-36 -32 -28 -24 -20 -16 -12 -8.0 -4.0 0 4.0 8.0 12 16 18
MAX VECTOR: 32.1 m/s
©UNISYS

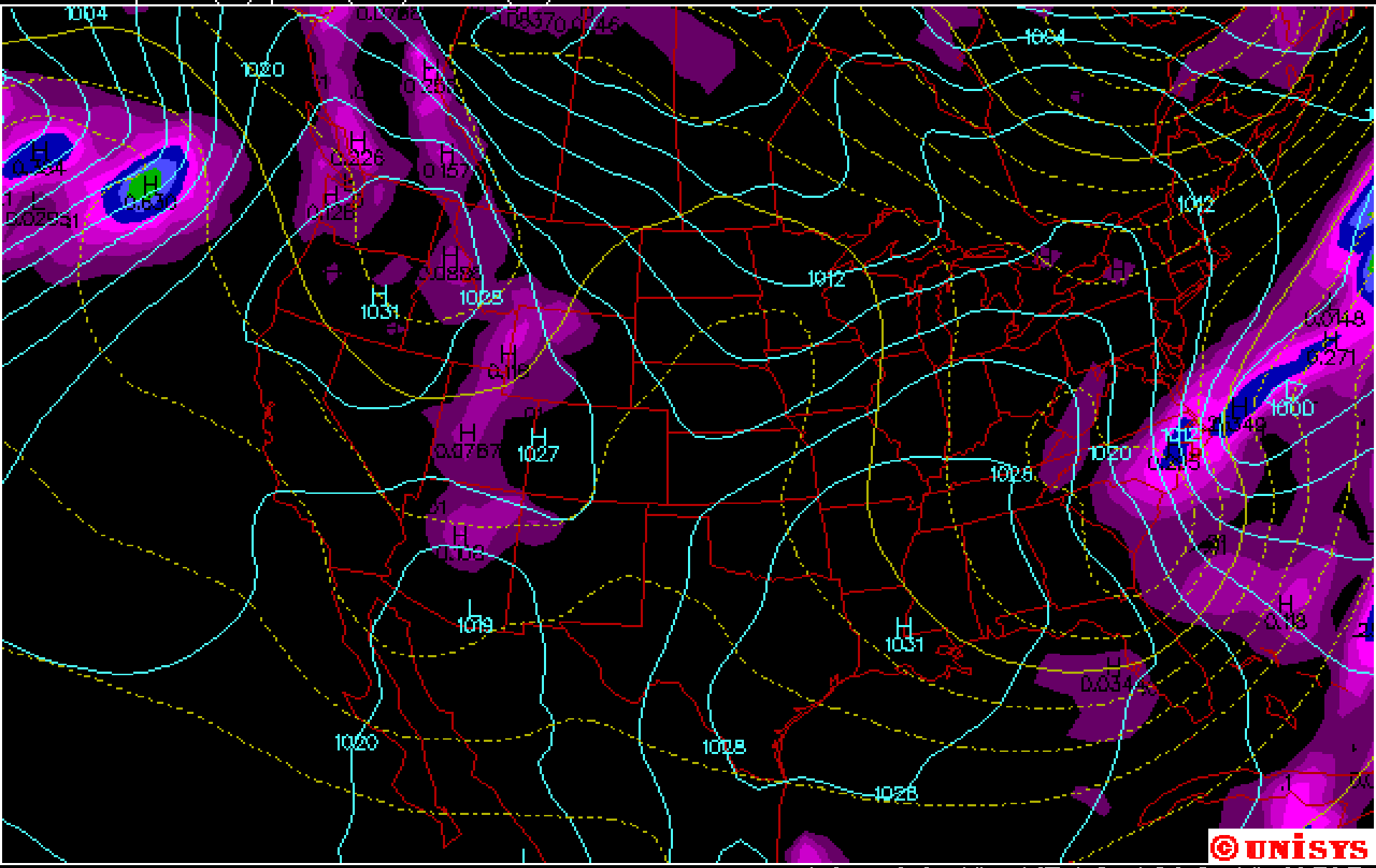
SFC SERIES
02/12Z DATA RUN

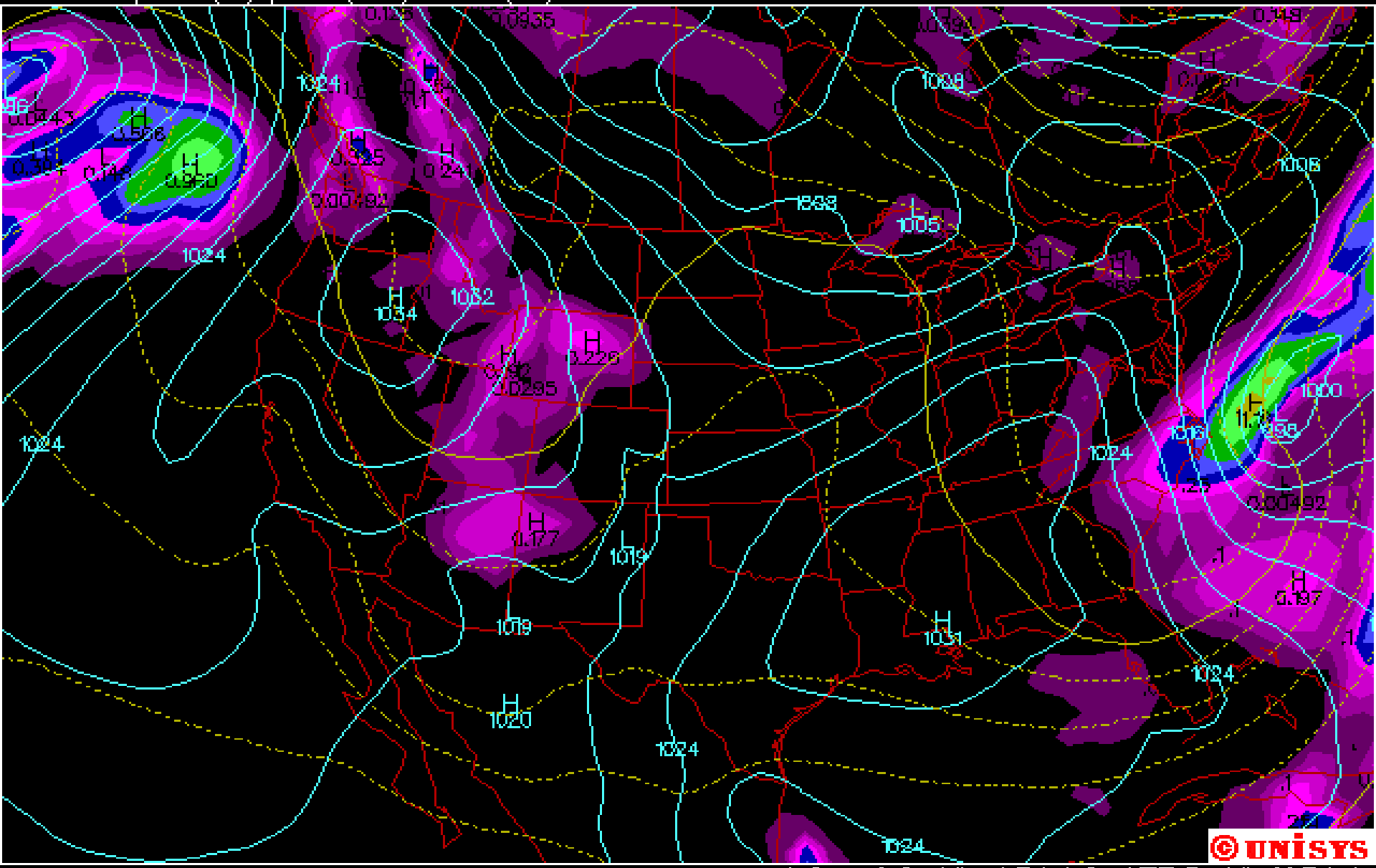

Surface prec (in) pres (mb) thick (m)
18 hour Eta valid 6Z THU 3 JAN 02
.01 .05 .1 .175 .25 .375 .5 .75 1 1.5 2 3 4
LO: 0.0 HI: 1.32 LO: 975.0 HI: 1033.6
©UNISYS


Surface prec (in) pres (mb) thick (m)
24 hour Eta valid 12Z THU 3 JAN 02
.01 .05 .1 .175 .25 .375 .5 .75 1 1.5 2 3 4
LO: 0.0 HI: 1.63 LO: 978.5 HI: 1033.3
©UNISYS

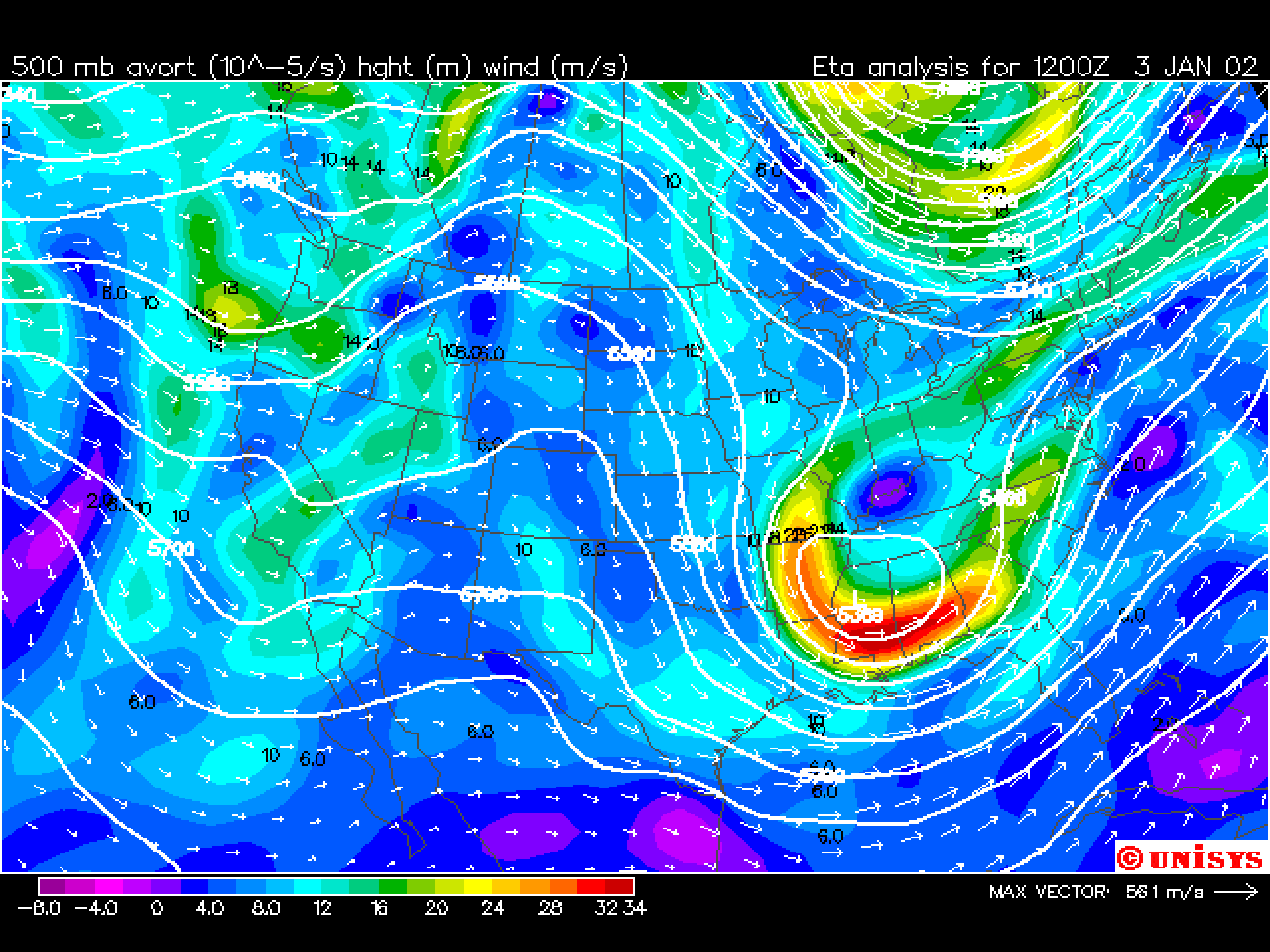

Surface prec (in) pres (mb) thick (m)
30 hour Eta valid 18Z THU 3 JAN 02
.01 .05 .1 .175 .25 .375 .5 .75 1 1.5 2 3 4
LO: 0.0 HI: 0.694 LO: 981.4 HI: 1033.3
©UNISYS

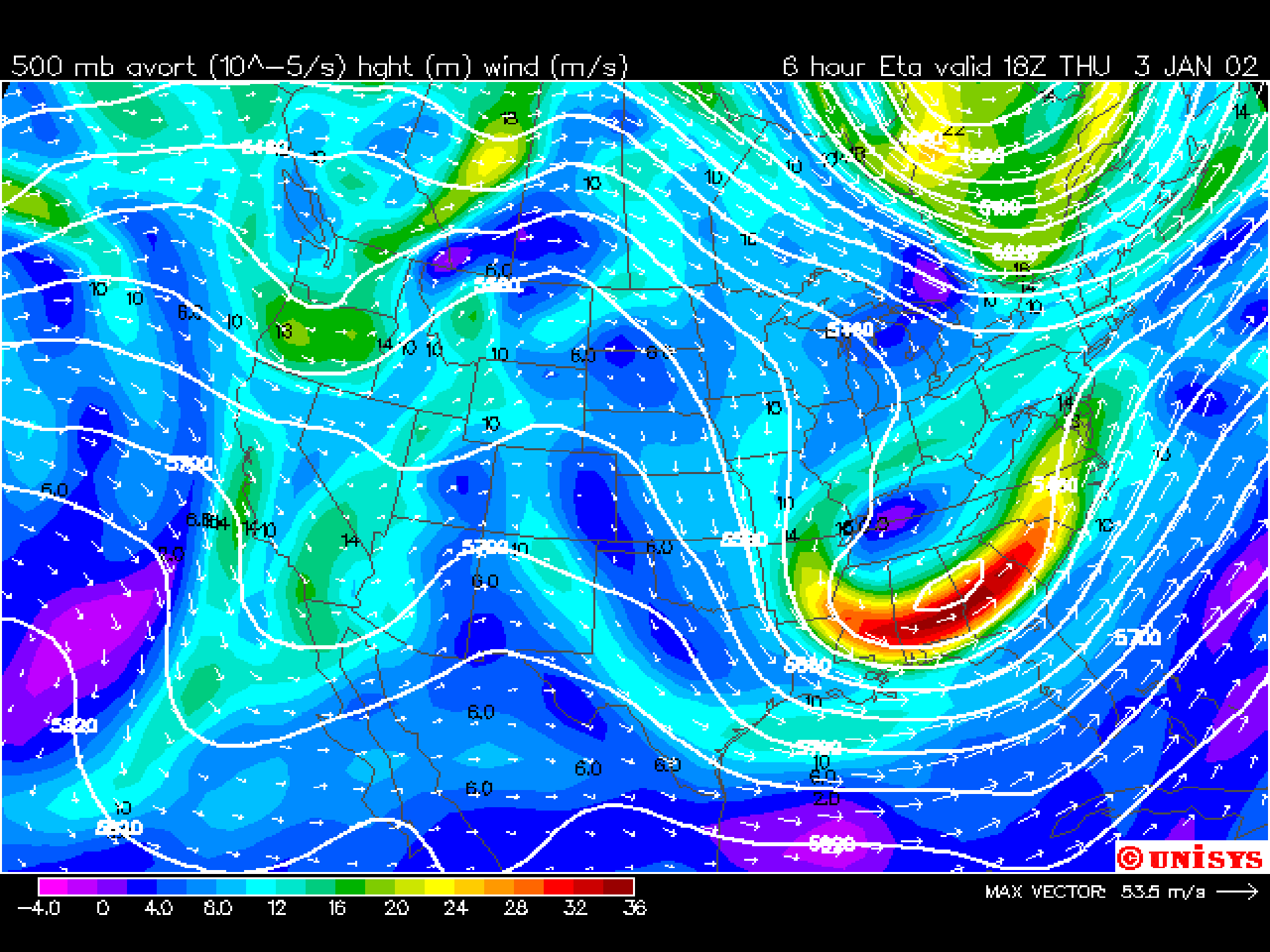

Surface prec (in) pres (mb) thick (m)
36 hour Eta valid 0Z FRI 4 JAN 02
.01 .05 .1 .175 .25 .375 .5 .75 1 1.5 2 3 4
LO: 0.0 HI: 1.56 LO: 982.5 HI: 1030.4
©UNISYS

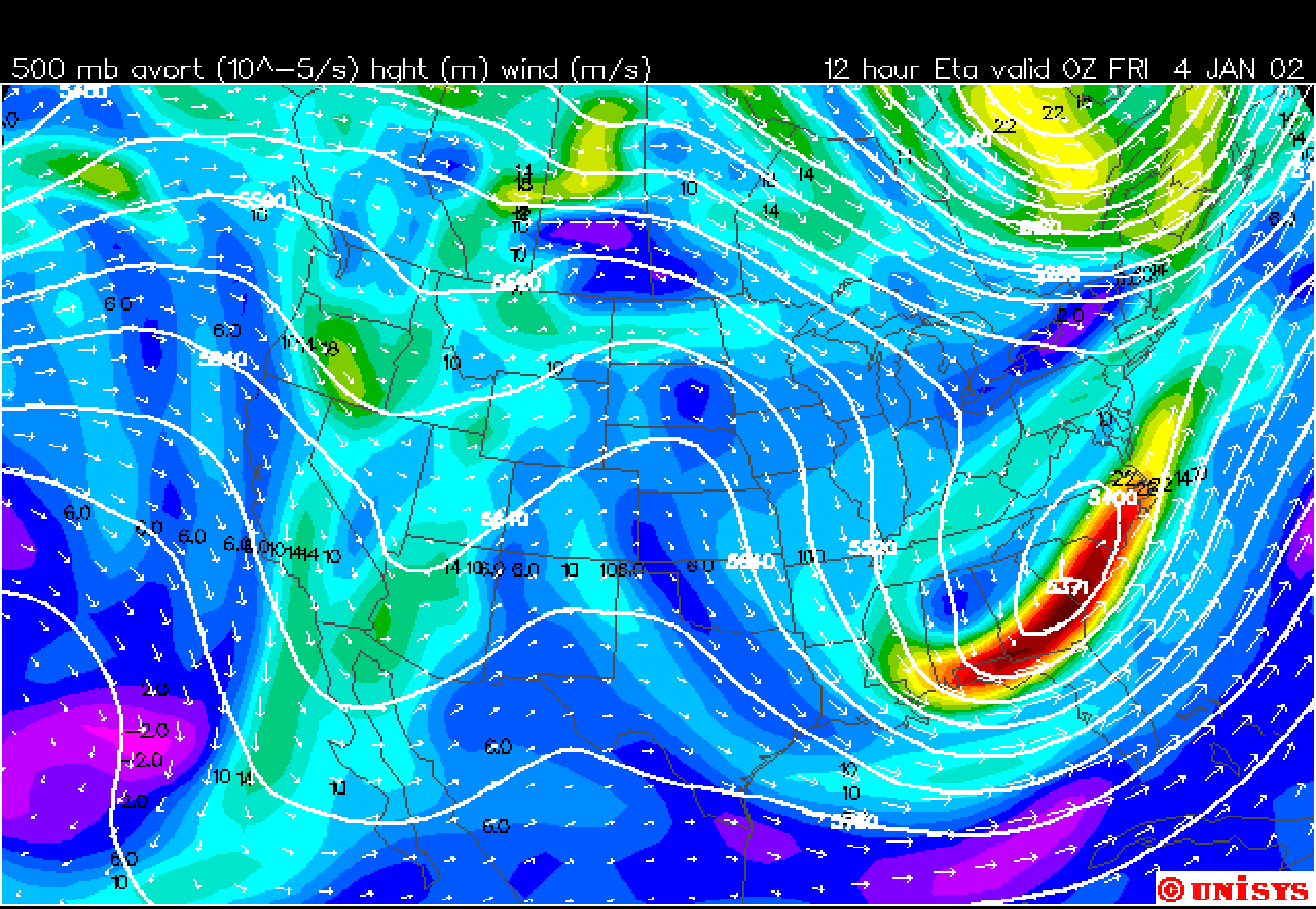

Surface prec (in) pres (mb) thick (m)
42 hour Eta valid 6Z FRI 4 JAN 02
1004
1020
1024
1028
1031
1027
1019
1012
1008
1000
1016
.01 .05 .1 .175 .25 .375 .5 .75 1 1.5 2 3 4
LO: 0.0 HI: 1.17 LO: 980.2 HI: 1031.5
©UNISYS

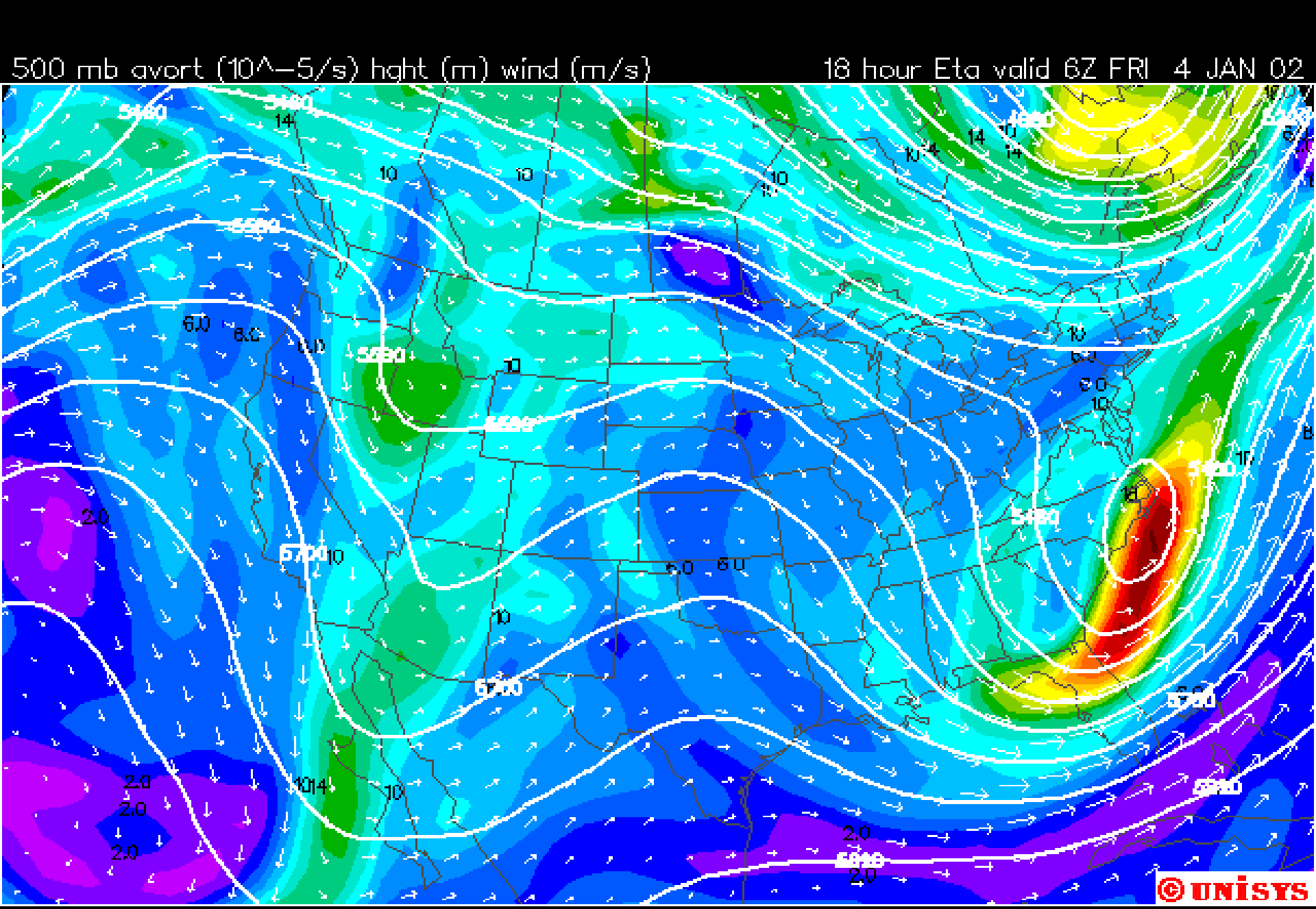

Surface prec (in) pres (mb) thick (m)
48 hour Eta valid 12Z FRI 4 JAN 02
1024
1034
1032
1005
1008
1000
1019
1031
1020
.01 .05 .1 .175 .25 .375 .5 .75 1 1.5 2 3 4
LO: 0.0 HI: 1.34 LO: 977.5 HI: 1034.4
©UNISYS

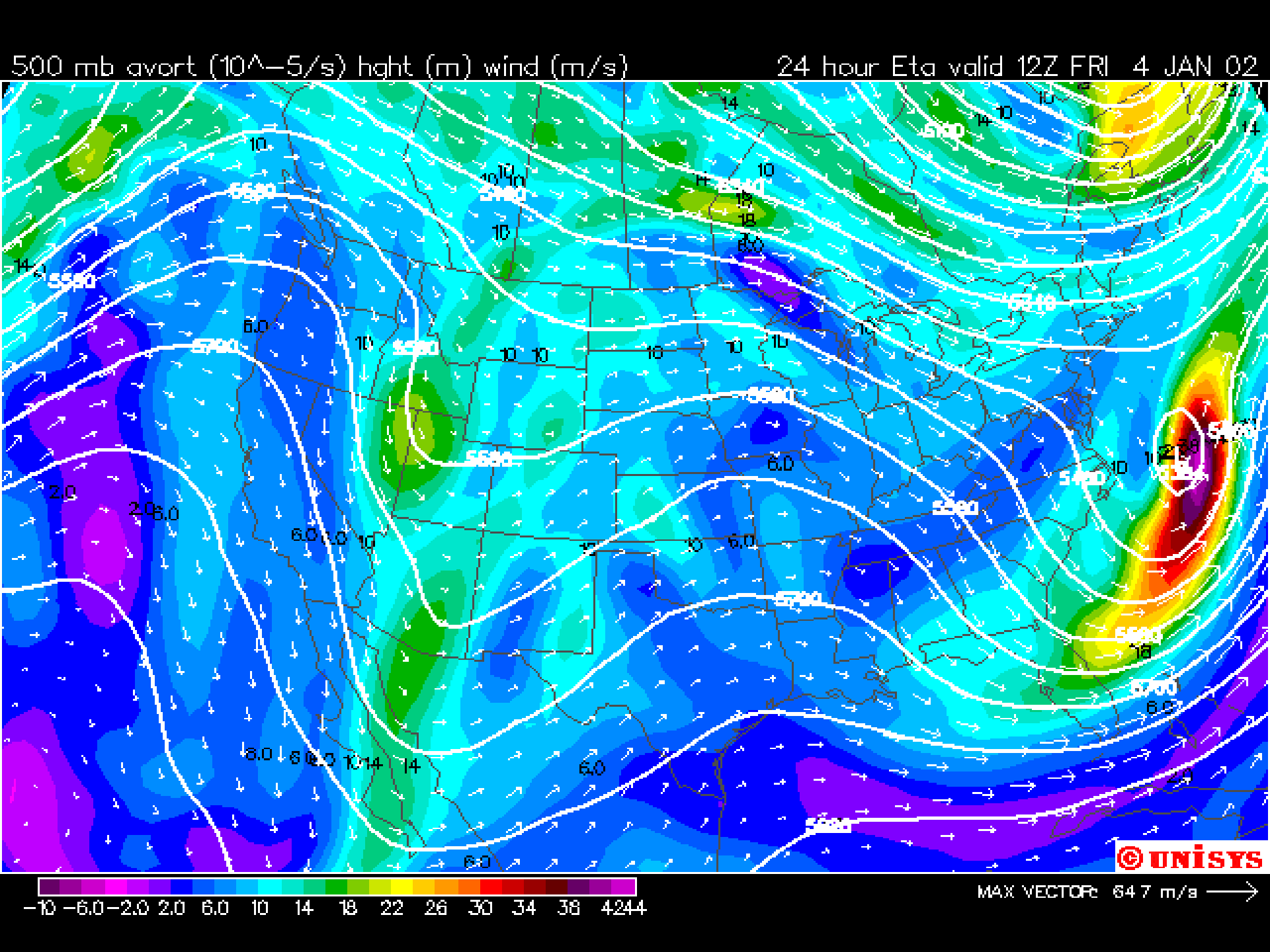
500MB SERIES
03/12Z DATA RUN


500 mb avort (10^−5/s) hght (m) wind (m/s)
Eta analysis for 1200Z 3 JAN 02
−8.0 −4.0 0 4.0 8.0 12 16 20 24 28 32 34
MAX VECTOR 56.1 m/s
©UNISYS

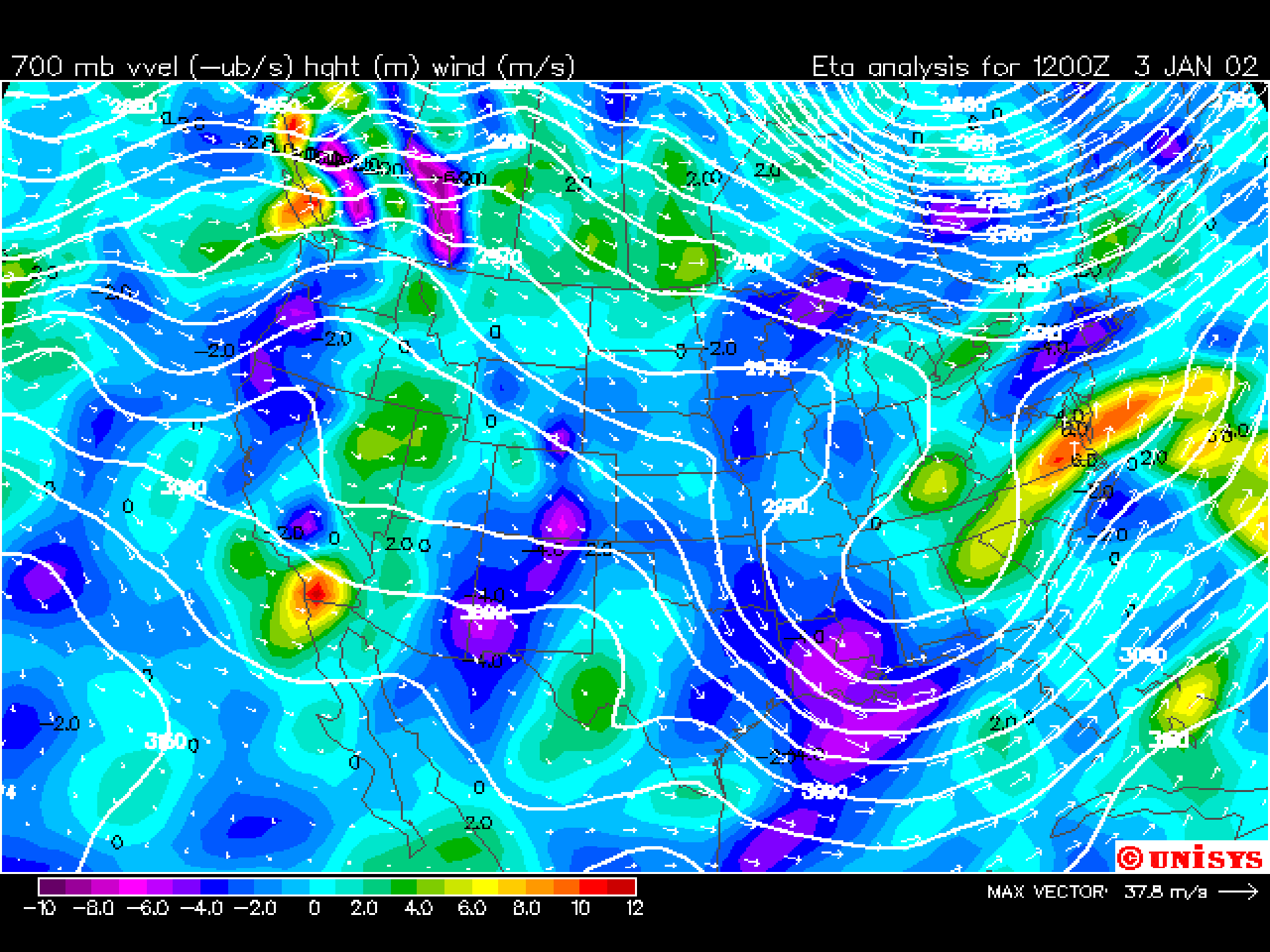

500 mb avort (10^−5/s) hght (m) wind (m/s)
6 hour Eta valid 18Z THU 3 JAN 02
−4.0 0 4.0 8.0 12 16 20 24 28 32 36
MAX VECTOR: 53.5 m/s
©UNISYS

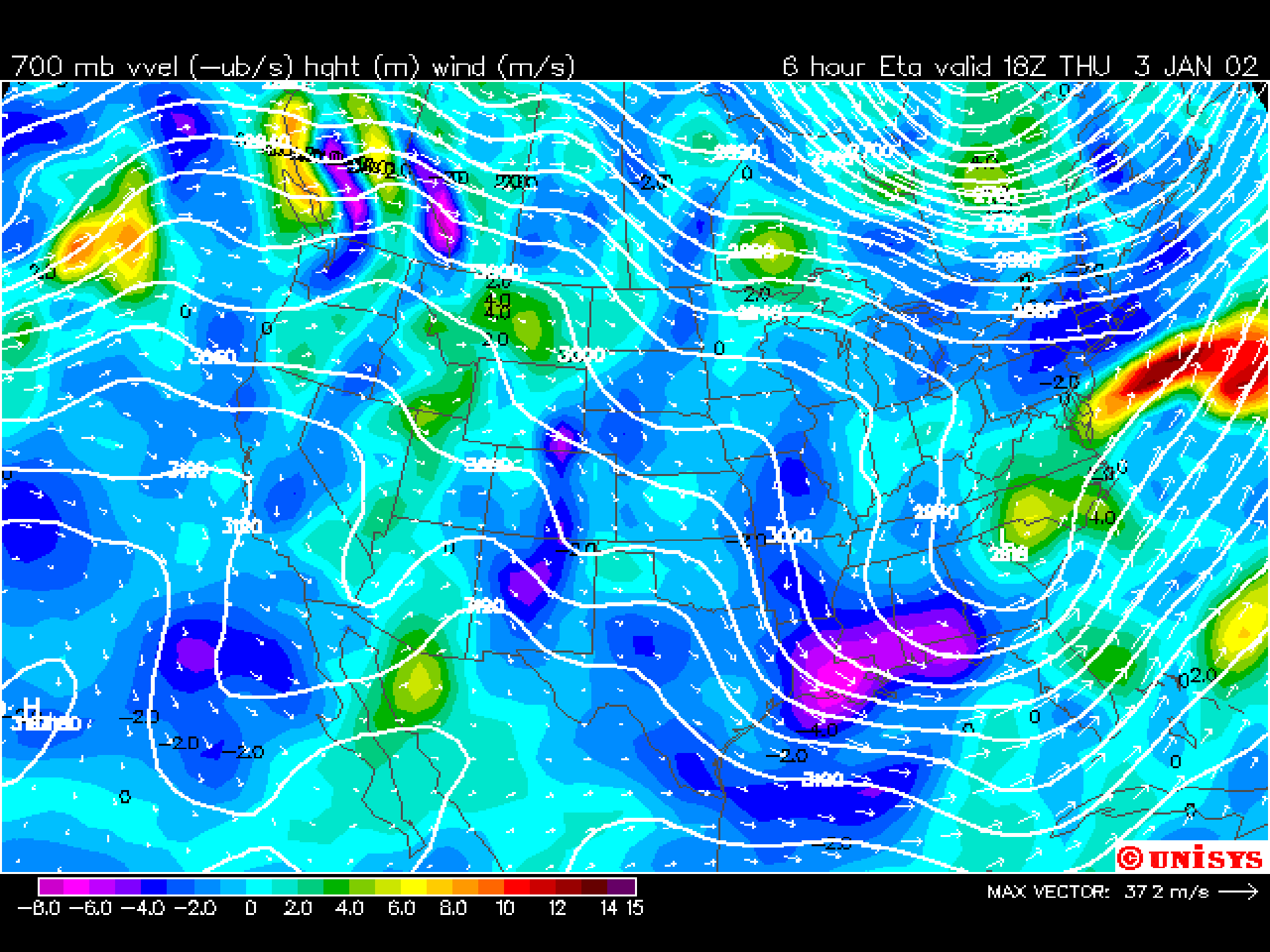

500 mb avort (10^−5/s) hght (m) wind (m/s)
12 hour Eta valid 0Z FRI 4 JAN 02
−4.0 0 4.0 8.0 12 16 20 24 28 32 36 38
MAX VECTOR 53.2 m/s
©UNISYS

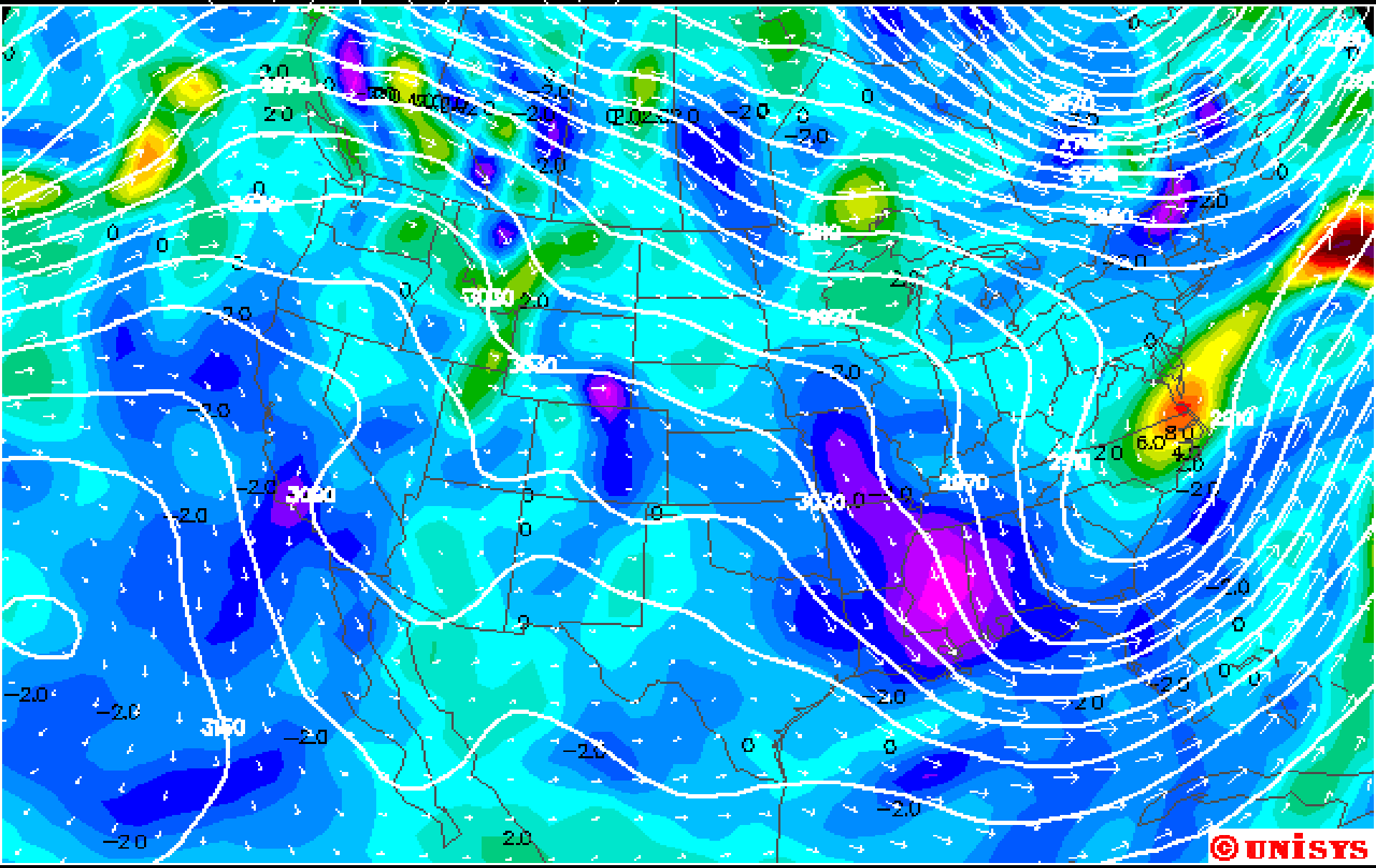

500 mb avort (10^−5/s) hght (m) wind (m/s)
18 hour Eta valid 6Z FRI 4 JAN 02
©UNISYS
−14 −10 −6.0 −2.0 2.0 6.0 10 14 18 22 26 30 34 38
MAX VECTOR: 57.3 m/s

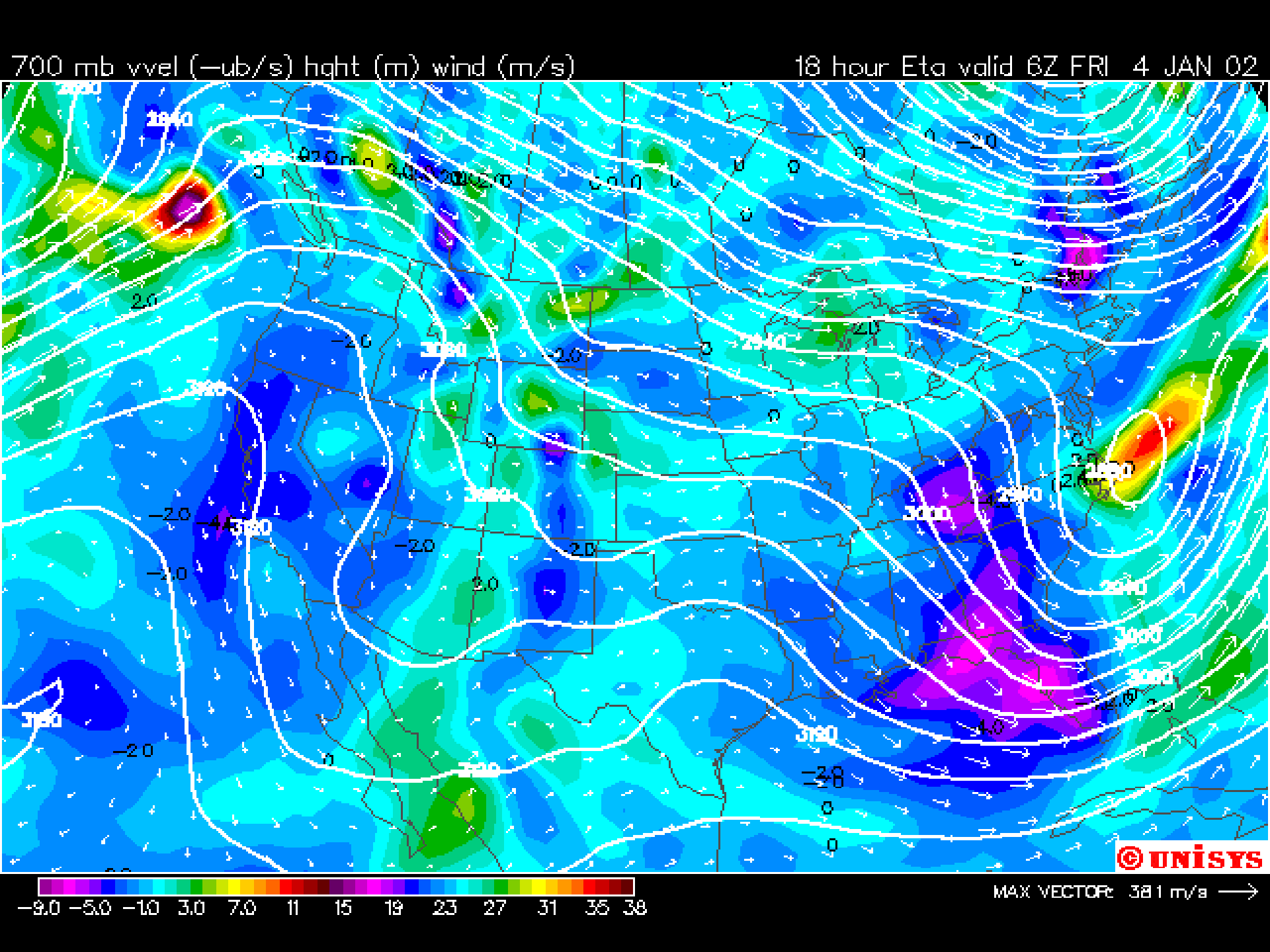

500 mb avort (10^−5/s) hght (m) wind (m/s)
24 hour Eta valid 12Z FRI 4 JAN 02
−10 −6.0 −2.0 2.0 6.0 10 14 18 22 26 30 34 38 4244
MAX VECTOR: 64.7 m/s
©UNISYS

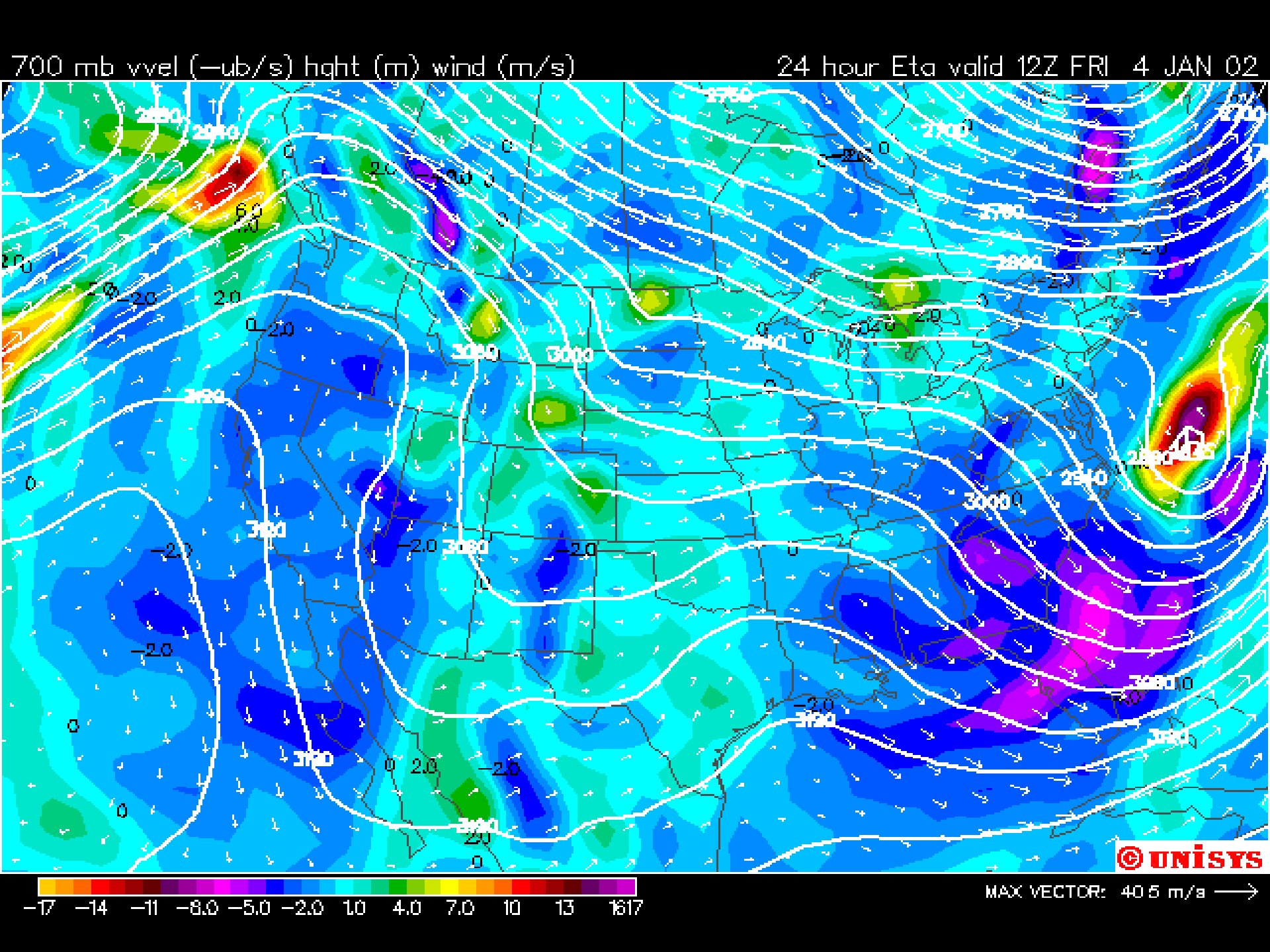
700MB SERIES
03/12Z DATA RUN


700 mb vvel (−ub/s) hght (m) wind (m/s)
Eta analysis for 1200Z 3 JAN 02
−10 −8.0 −6.0 −4.0 −2.0 0 2.0 4.0 6.0 8.0 10 12
MAX VECTOR 37.8 m/s
©UNISYS

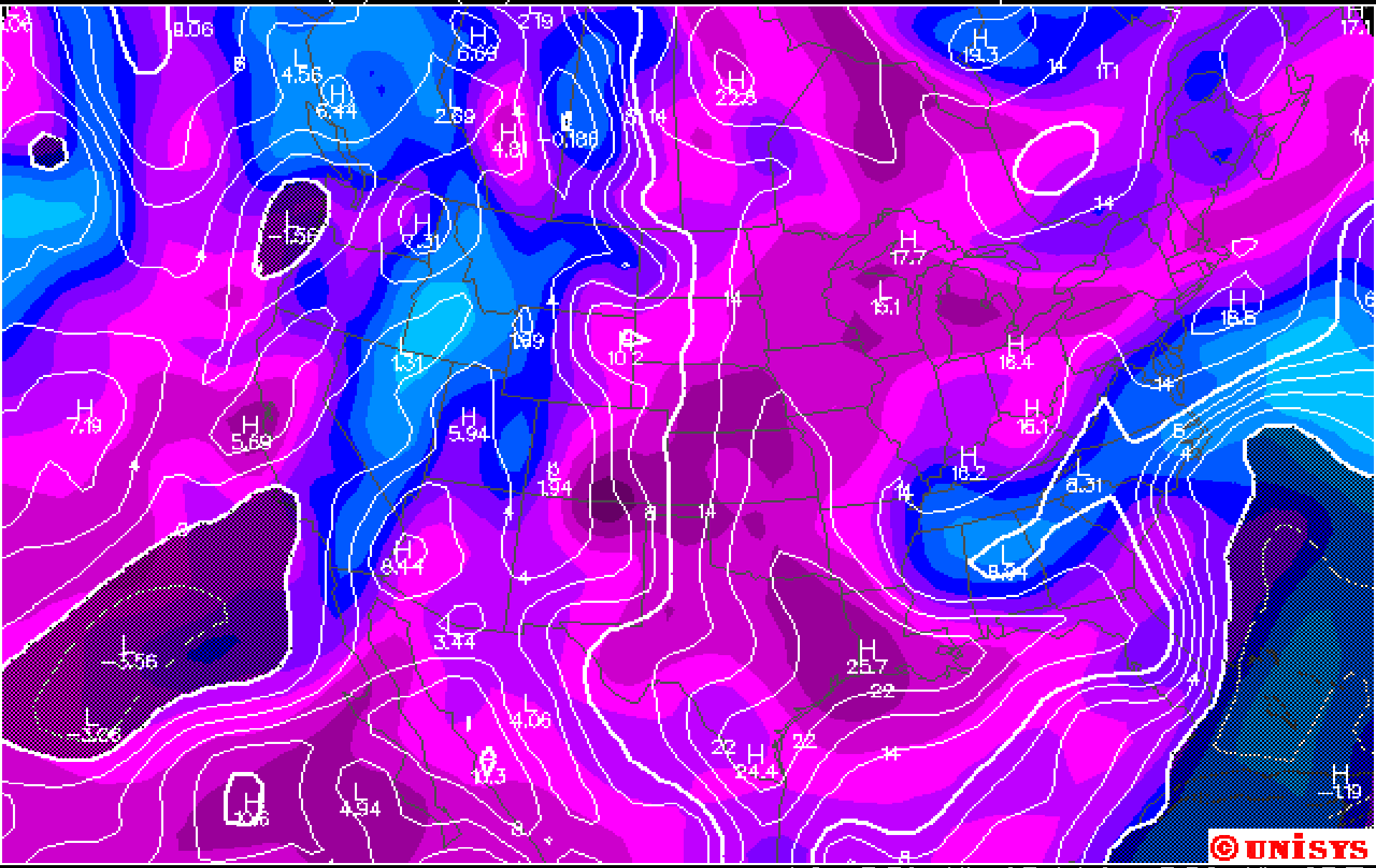

700 mb vvel (−ub/s) hght (m) wind (m/s)
6 hour Eta valid 18Z THU 3 JAN 02
−8.0 −6.0 −4.0 −2.0 0 2.0 4.0 6.0 8.0 10 12 14 15
MAX VECTOR: 37.2 m/s
©UNISYS

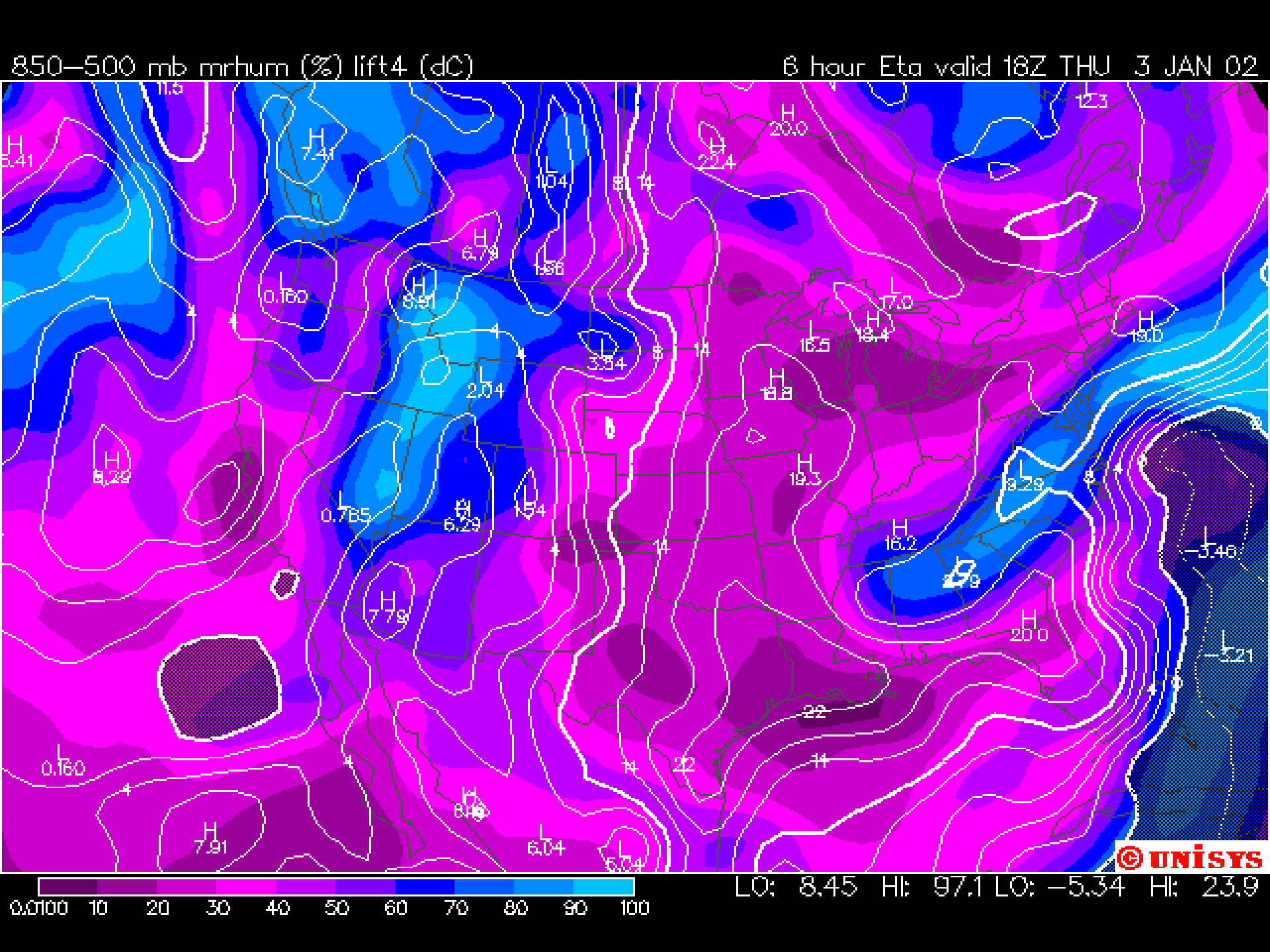

700 mb vvel (-ub/s) hght (m) wind (m/s)
12 hour Eta valid 0Z FRI 4 JAN 02
-7.0 -5.0 -3.0 -1.0 1.0 3.0 5.0 7.0 9.0 11 13 15 17 19
MAX VECTOR 37.1 m/s
©UNISYS

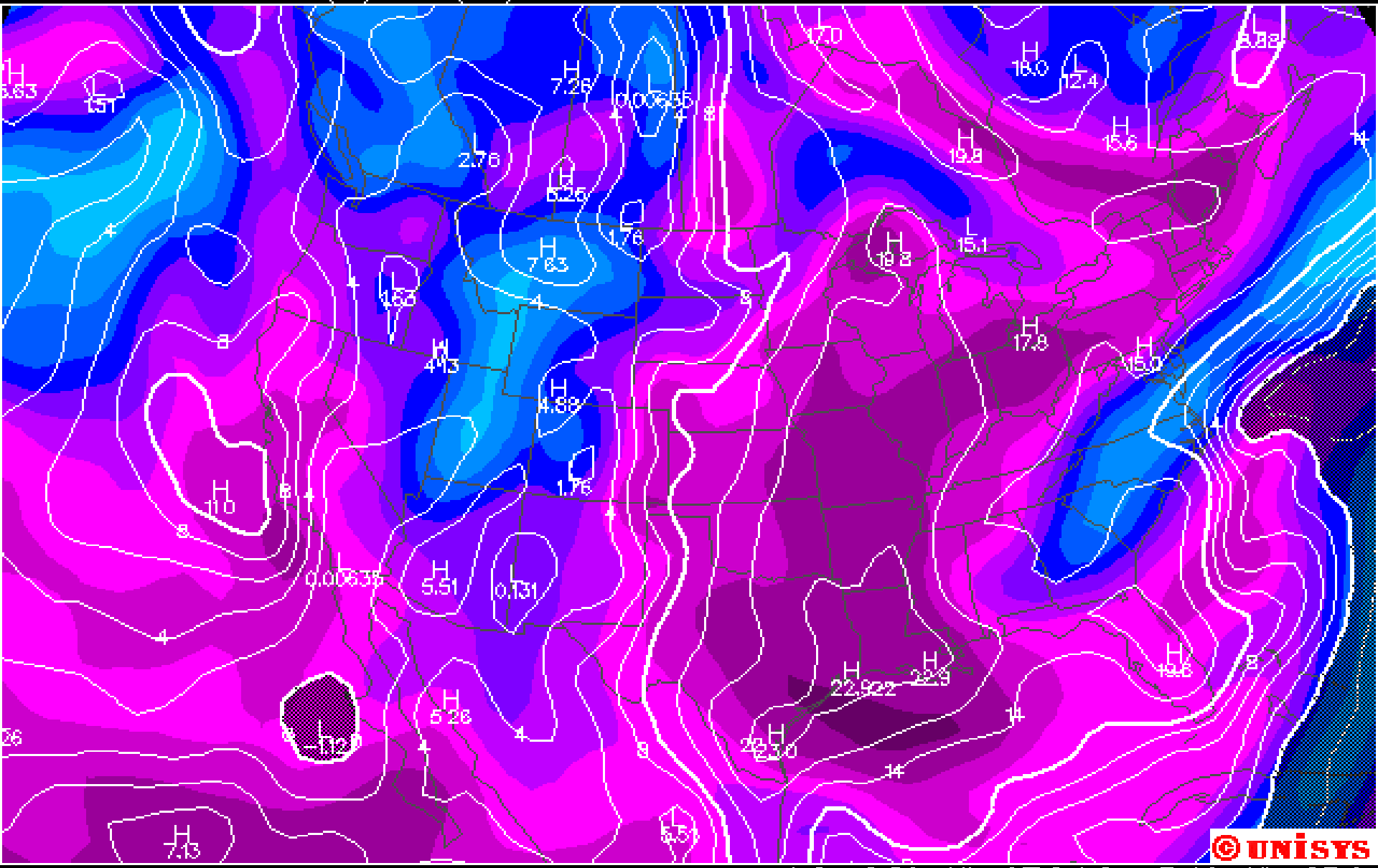

700 mb vvel (-ub/s) hght (m) wind (m/s)
18 hour Eta valid 6Z FRI 4 JAN 02
-9.0 -5.0 -1.0 3.0 7.0 11 15 19 23 27 31 35 38
MAX VECTOR: 38 m/s
©UNISYS

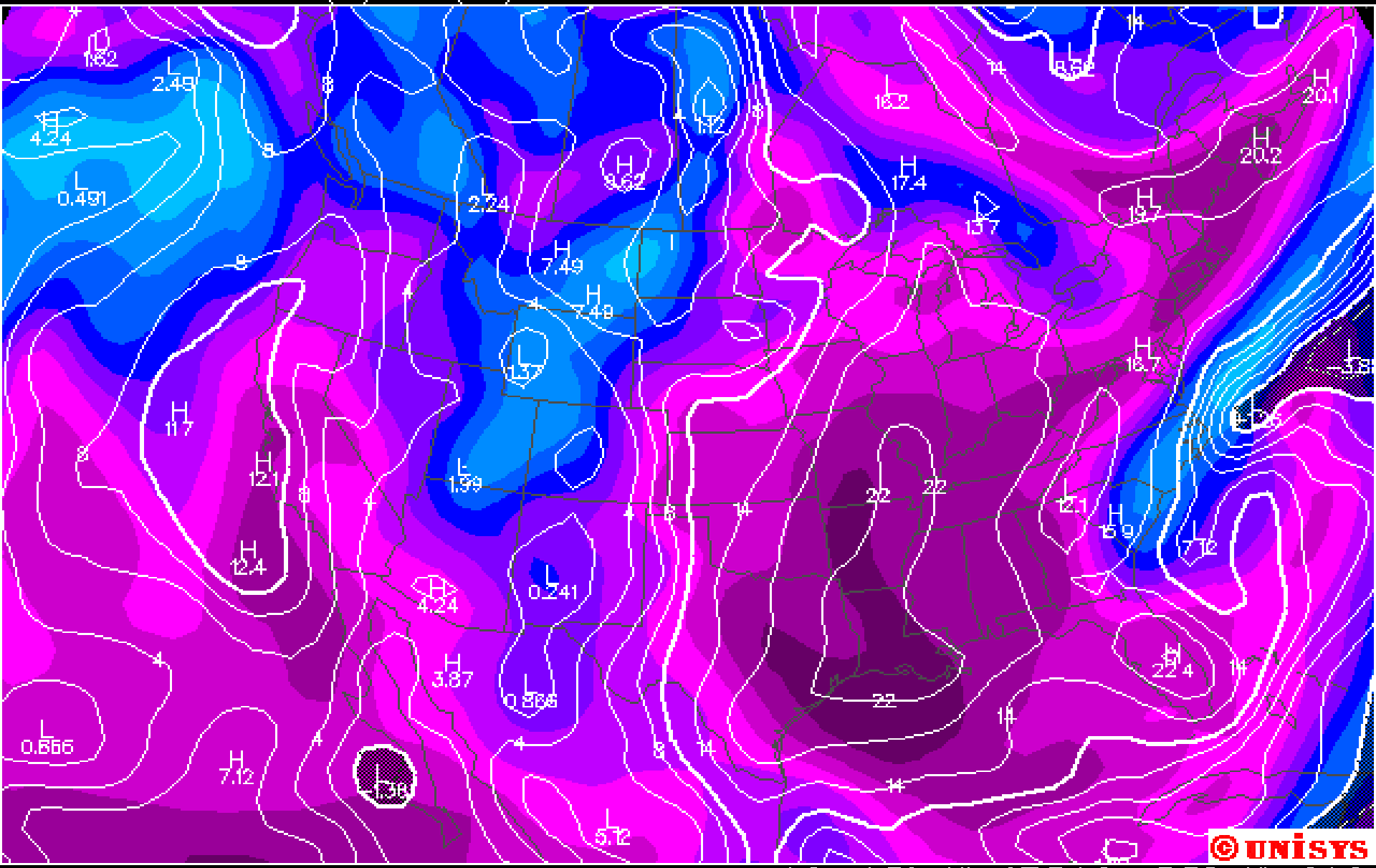

700 mb vvel (-ub/s) hght (m) wind (m/s)
24 hour Eta valid 12Z FRI 4 JAN 02
-17 -14 -11 -8.0 -5.0 -2.0 1.0 4.0 7.0 10 13 16 17
MAX VECTOR: 40.5 m/s
©UNISYS

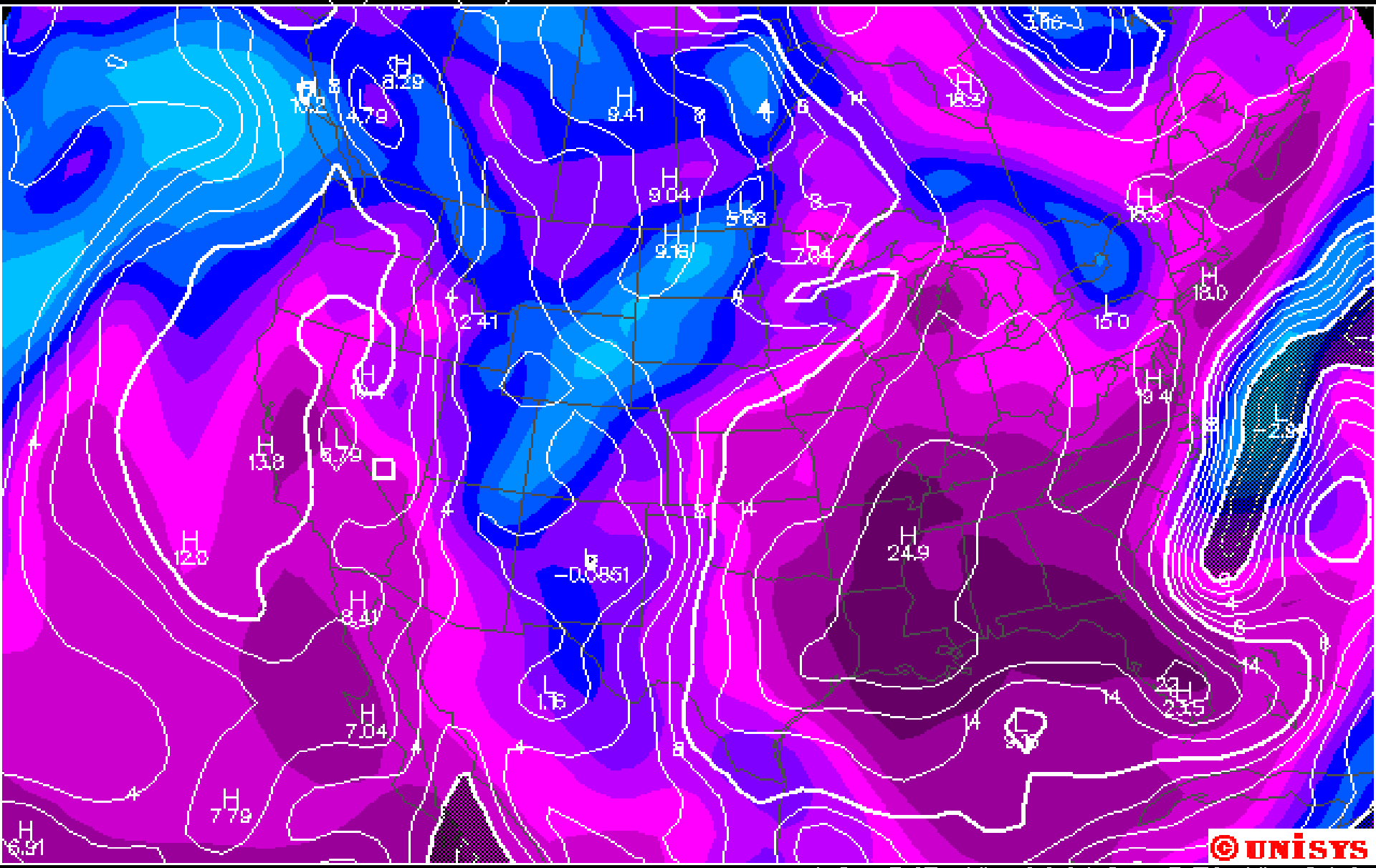
850-500MB RHUM SERIES
03/12Z DATA RUN


850–500 mb mrhum (%) lift4 (dC)
Eta analysis for 1200Z 3 JAN 02
0.0 100 10 20 30 40 50 60 70 80 90 100
LO: 3.39 HI: 95.4 LO: -5.56 HI: 25.7
©UNISYS

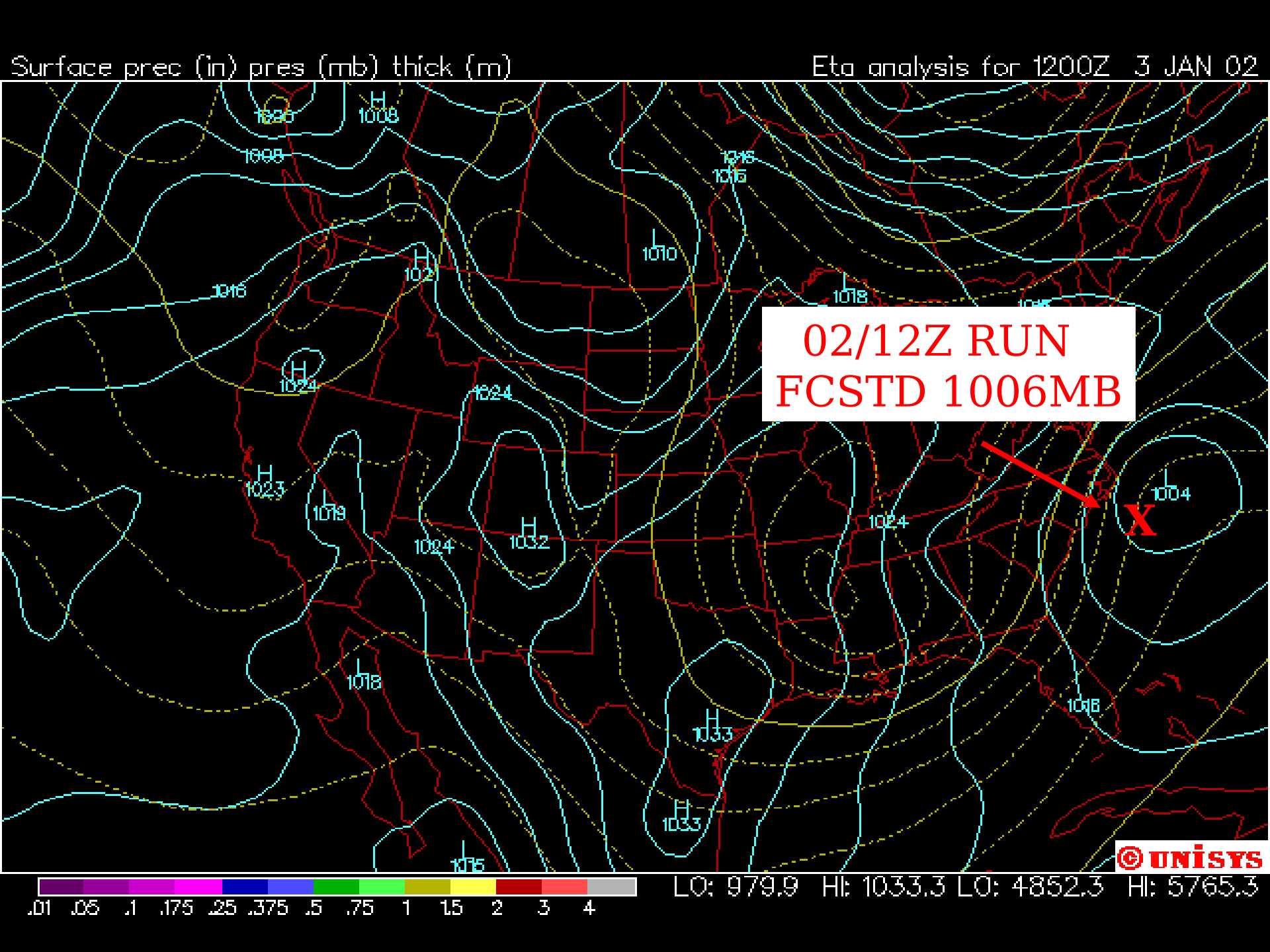

850–500 mb mrhum (%) lift4 (dC)
6 hour Eta valid 18Z THU 3 JAN 02
0.0 100 10 20 30 40 50 60 70 80 90 100
LO: 8.45 HI: 97.1 LO: -5.34 HI: 23.9
©UNISYS

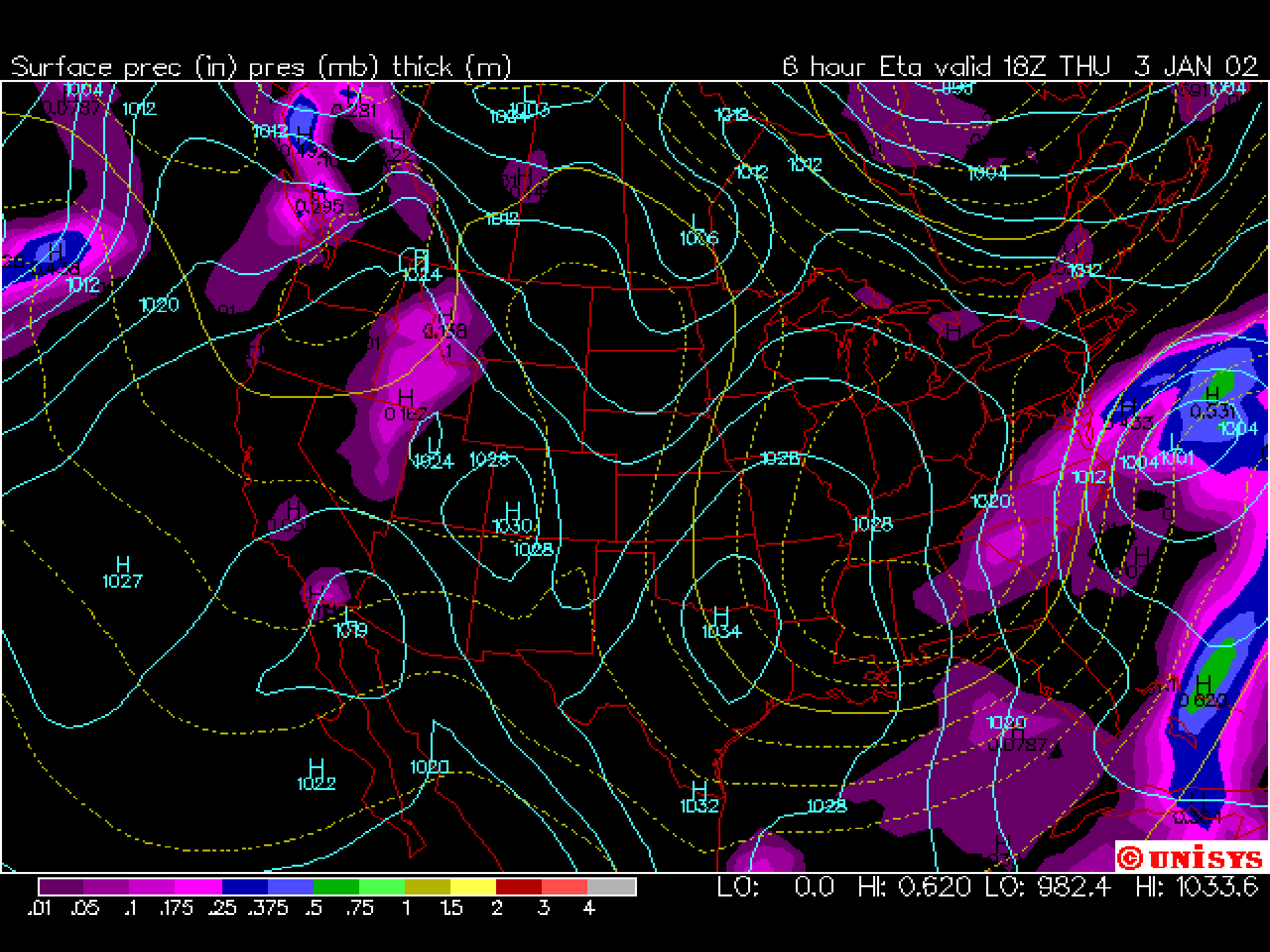

850–500 mb mrhum (%) lift4 (dC)
12 hour Eta valid 0Z FRI 4 JAN 02
0.0 100 10 20 30 40 50 60 70 80 90 100
LO: 6.89 HI: 97.2 LO: -5.49 HI: 23.0
©UNISYS

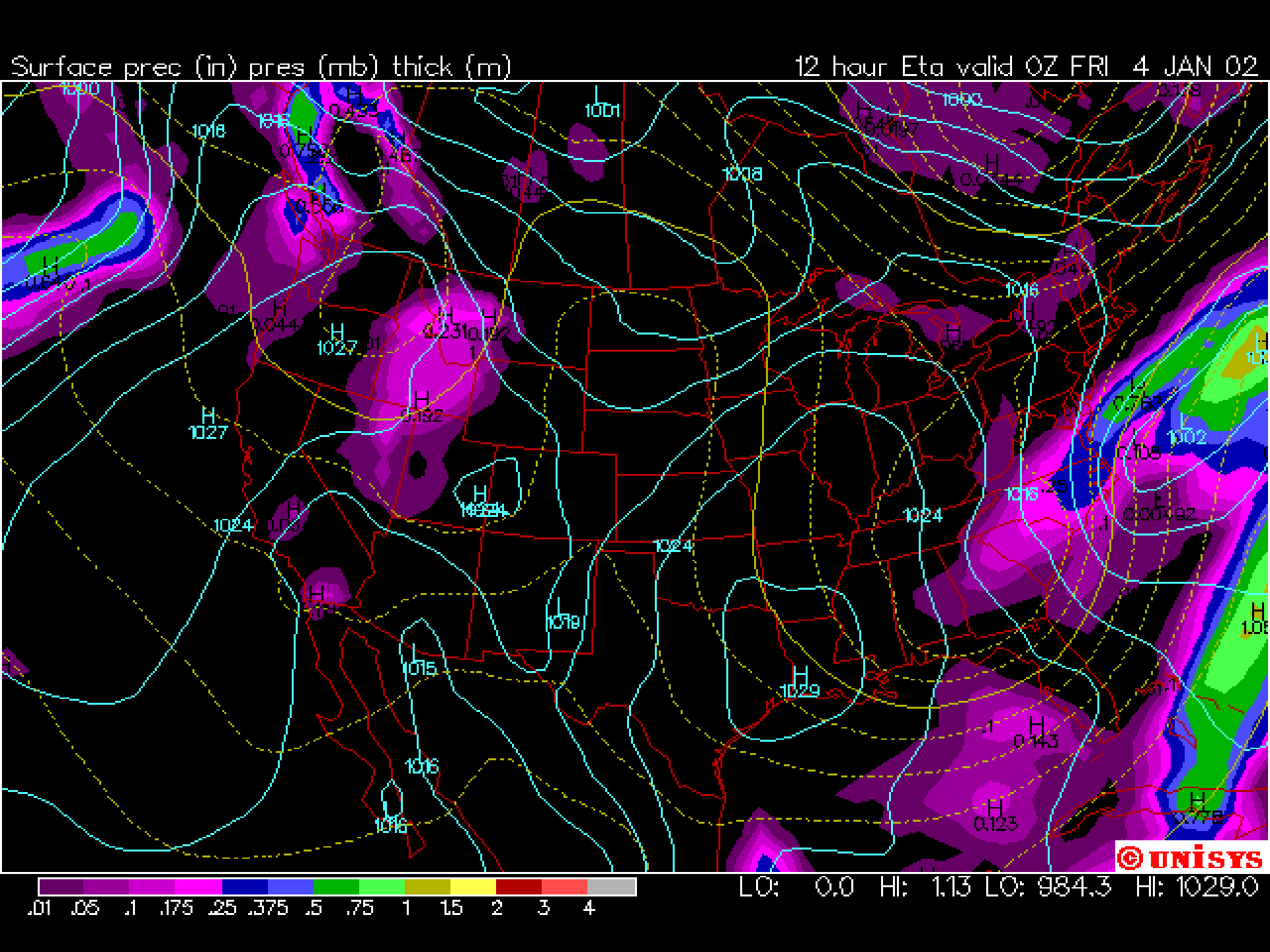

850–500 mb mrhum (%) lift4 (dC)
18 hour Eta valid 6Z FRI 4 JAN 02
0.0 10 20 30 40 50 60 70 80 90 100
LO: 4.30 HI: 97.3 LO: -5.38 HI: 24.6
©UNISYS

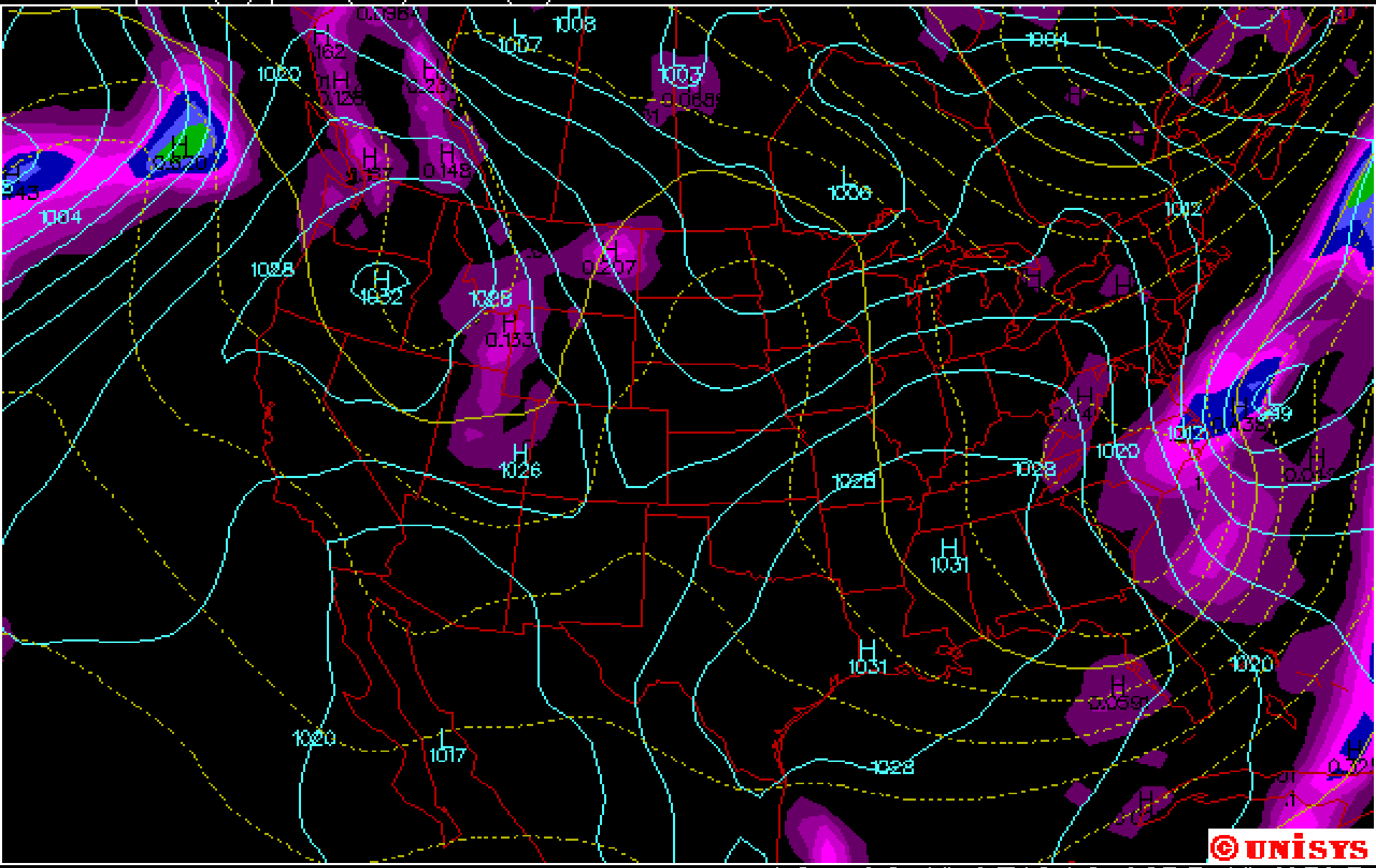

850–500 mb mrhum (%) lift4 (dC)
24 hour Eta valid 12Z FRI 4 JAN 02
0.0100 10 20 30 40 50 60 70 80 90 100
LO: 5.13 HI: 96.1 LO: -5.71 HI: 24.9
©UNISYS

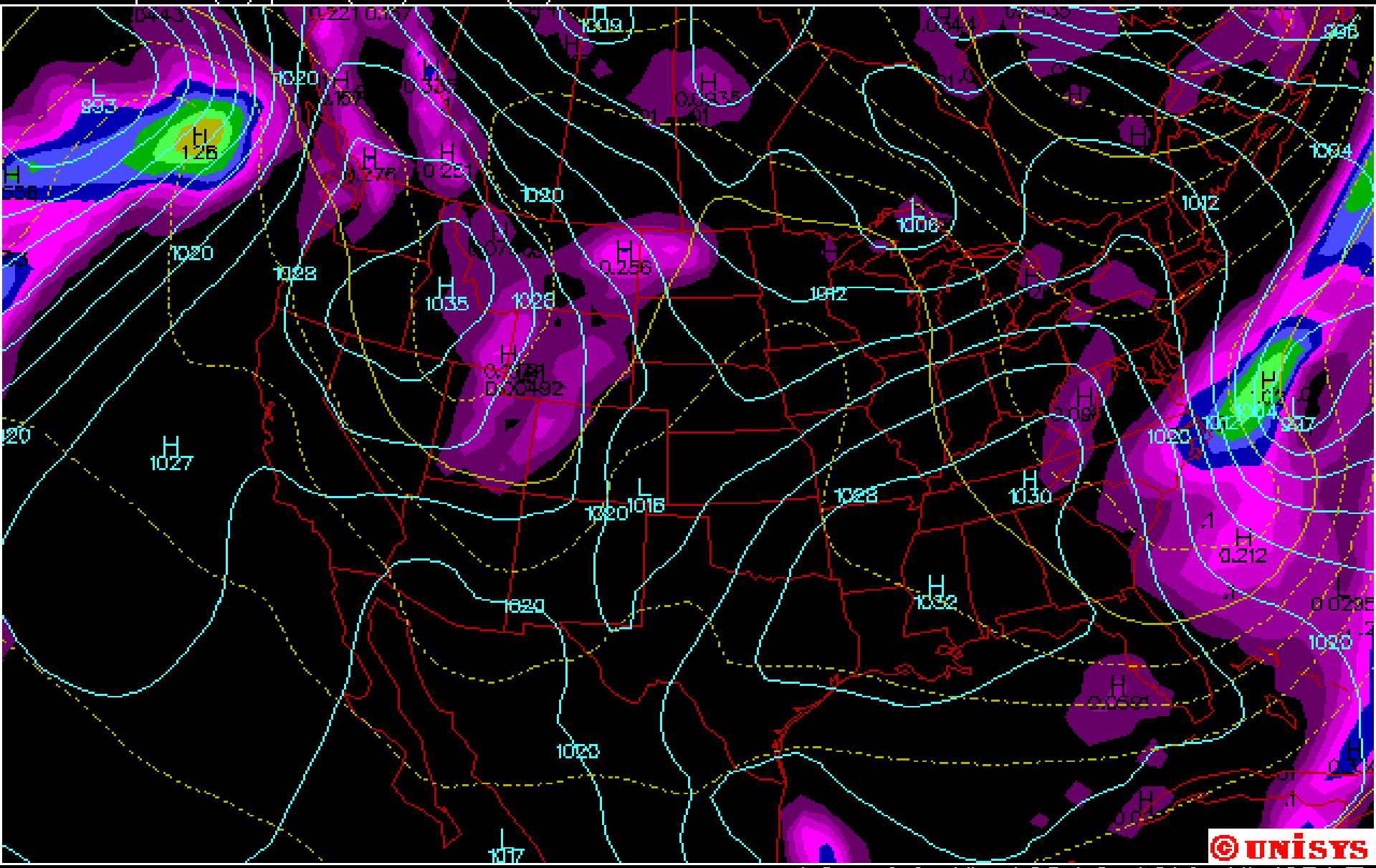
SFC SERIES
03/12Z DATA RUN


Surface prec (in) pres (mb) thick (m)
Eta analysis for 1200Z 3 JAN 02
02/12Z RUN
FCSTD 1006MB
X
.01 .05 .1 .175 .25 .375 .5 .75 1 1.5 2 3 4
LO: 979.9 HI: 1033.3 LO: 4852.3 HI: 5765.3
©UNISYS


Surface prec (in) pres (mb) thick (m)
6 hour Eta valid 18Z THU 3 JAN 02
.01 .05 .1 .175 .25 .375 .5 .75 1 1.5 2 3 4
LO: 0.0 HI: 0.620 LO: 982.4 HI: 1033.6
©UNISYS


Surface prec (in) pres (mb) thick (m)
12 hour Eta valid 0Z FRI 4 JAN 02
.01 .05 .1 .175 .25 .375 .5 .75 1 1.5 2 3 4
LO: 0.0 HI: 1.13 LO: 984.3 HI: 1029.0
©UNISYS


Surface prec (in) pres (mb) thick (m)
18 hour Eta valid 6Z FRI 4 JAN 02
.01 .05 .1 .175 .25 .375 .5 .75 1 1.5 2 3 4
LO: 0.0 HI: 0.748 LO: 983.3 HI: 1032.3
©UNISYS


Surface prec (in) pres (mb) thick (m)
24 hour Eta valid 12Z FRI 4 JAN 02
.01 .05 .1 .175 .25 .375 .5 .75 1 1.5 2 3 4
LO: 0.0 HI: 1.28 LO: 981.9 HI: 1034.7
©UNISYS

SNOW FORECAST - COMPUTATION

Vorticity Method

Surface Vorticity

MSL 200NM N/S/W/E direction (1011)

Subtract MSL of sfc low (1005) from avg pressure (1011)

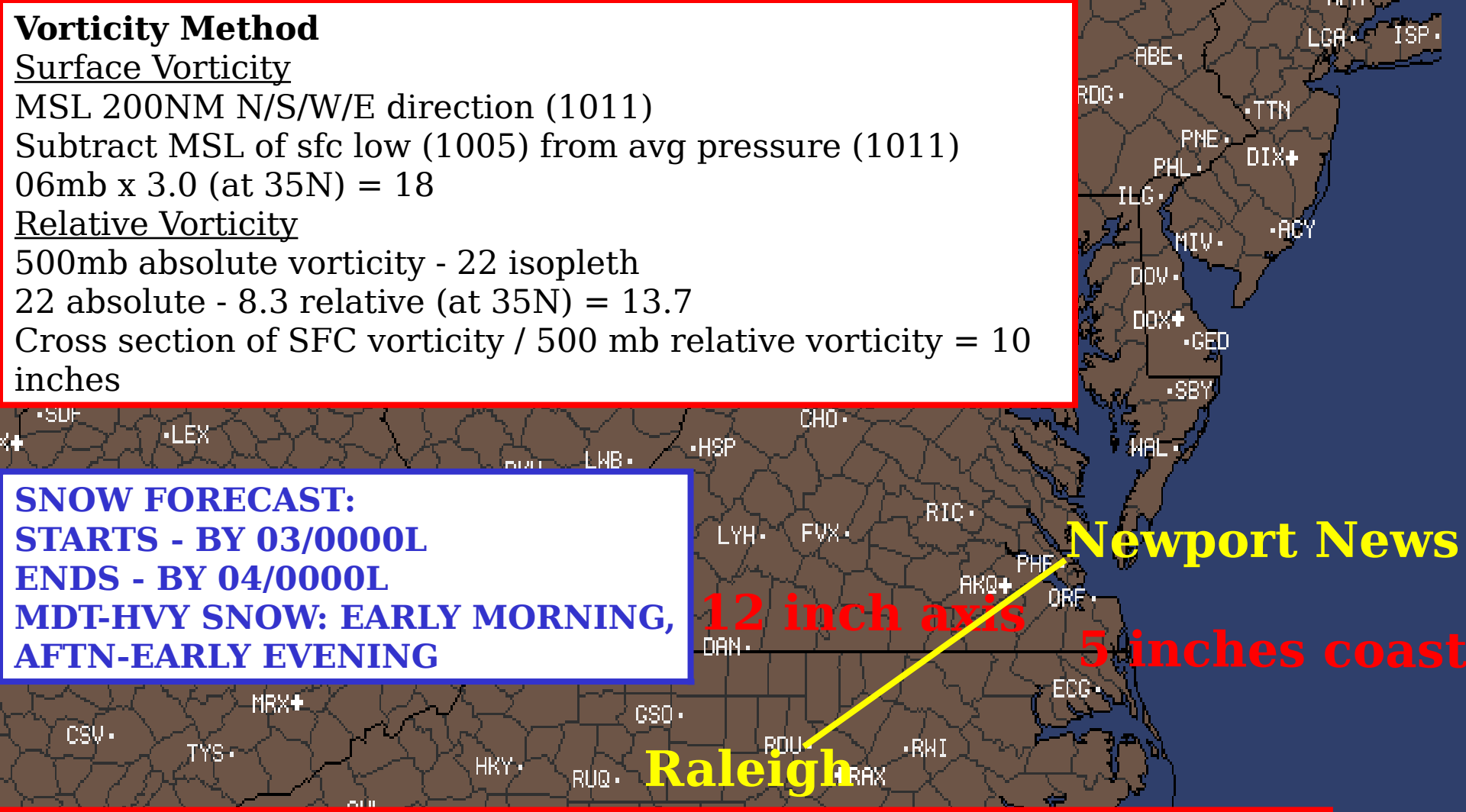
06mb x 3.0 (at 35N) = 18

Relative Vorticity

500mb absolute vorticity - 22 isopleth

22 absolute - 8.3 relative (at 35N) = 13.7

Cross section of SFC vorticity / 500 mb relative vorticity = 10 inches



SNOW FORECAST:
STARTS - BY 03/0000L
ENDS - BY 04/0000L
MDT-HVY SNOW: EARLY MORNING, AFTN-EARLY EVENING

200MB Snow Index

Temp in warm pocket (6-14 deg latitude upstream) = -41

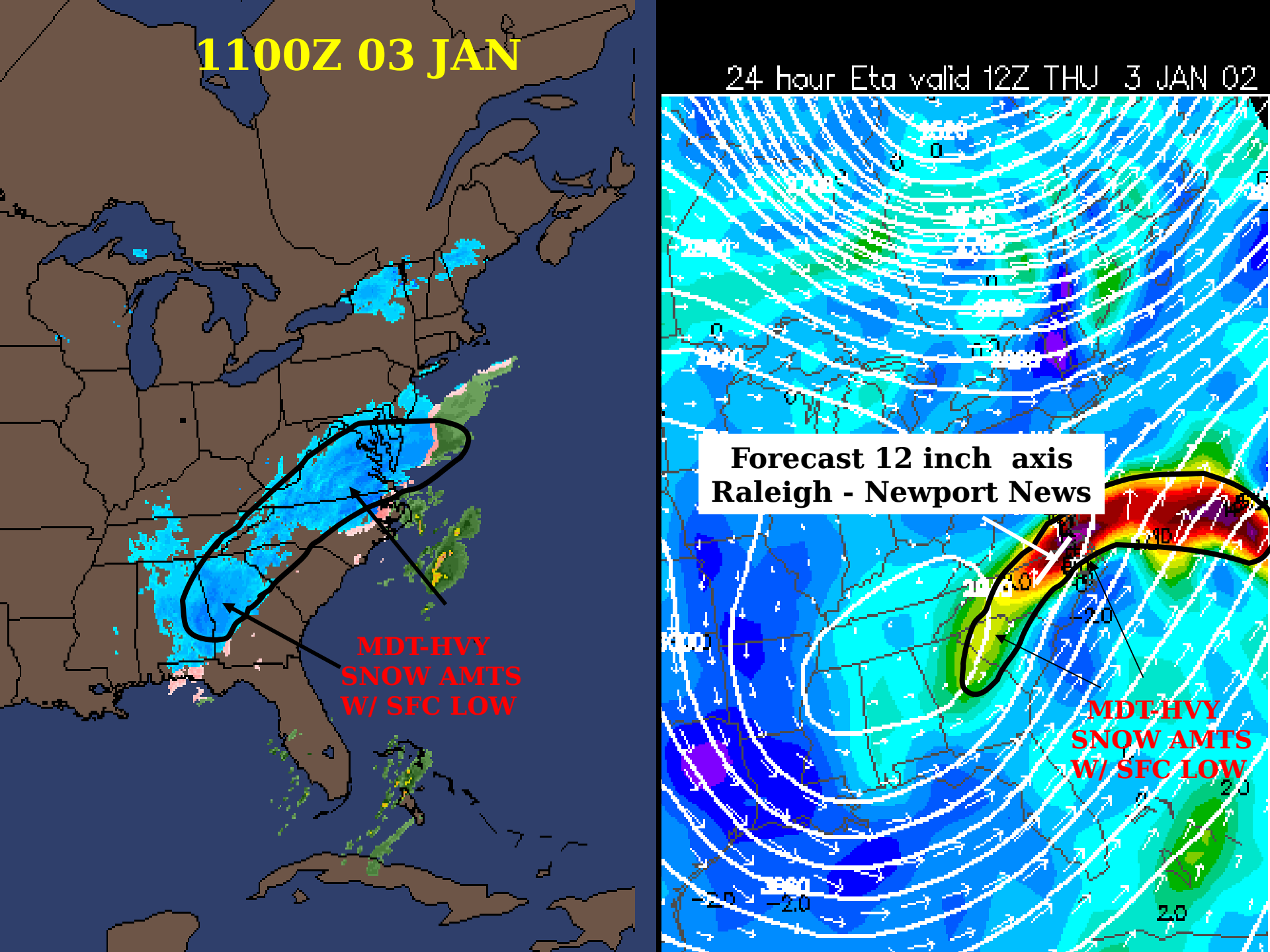
Temp over NGU = -59

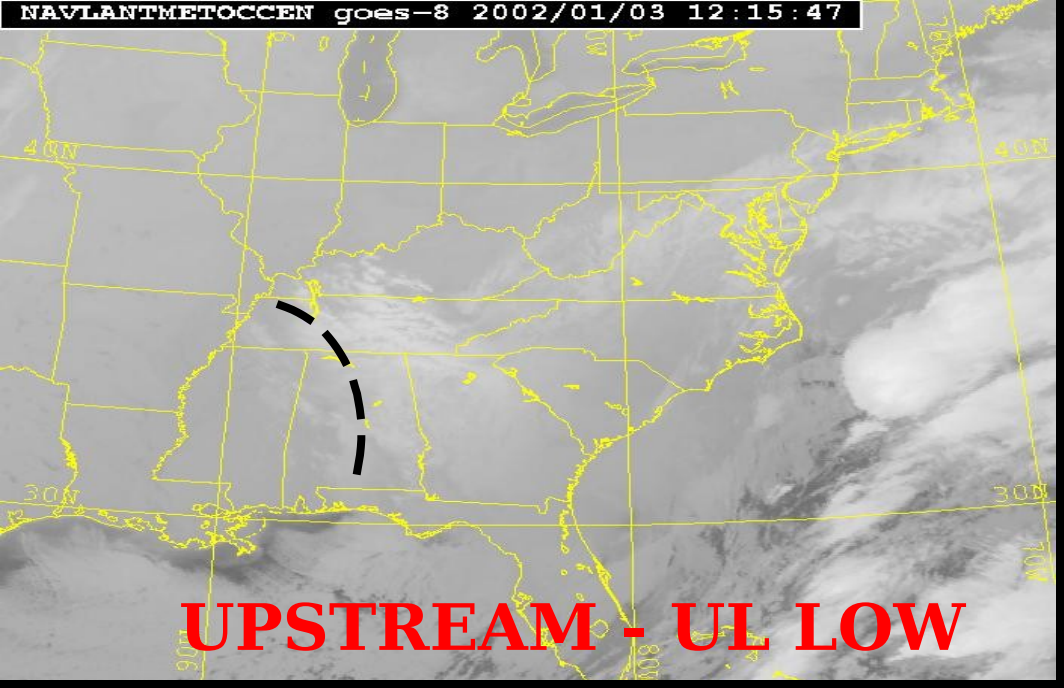
dT = 18 deg of WAA

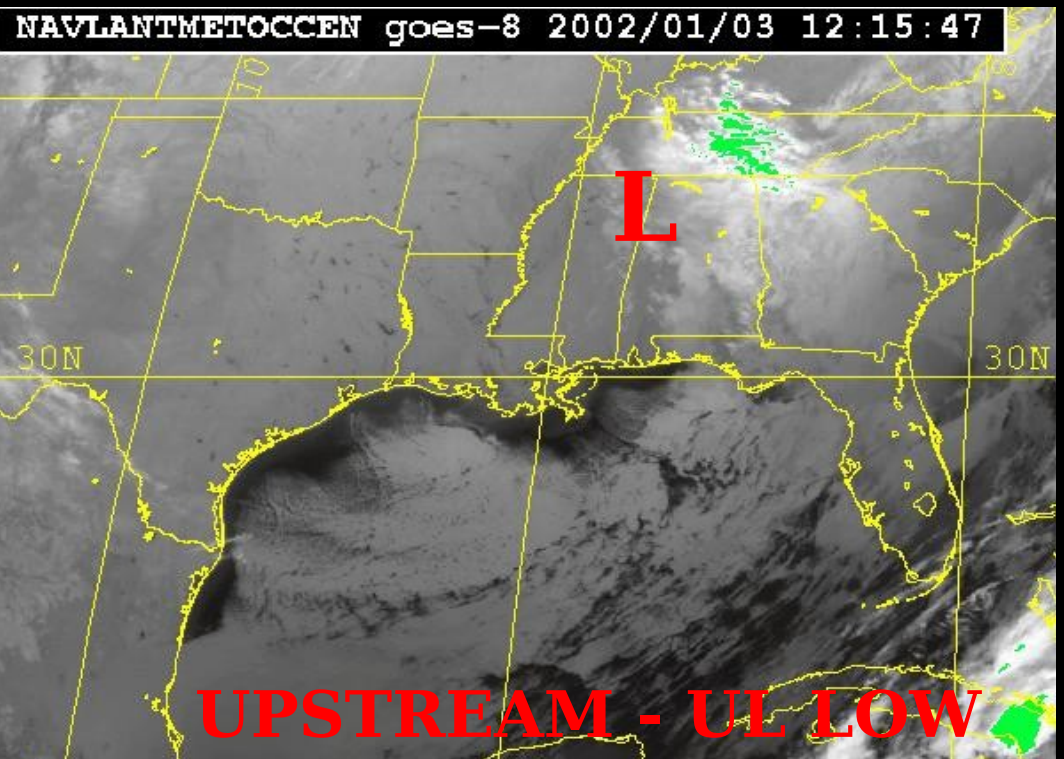
Snowfall = 1/2 x 18 = 9 inches/24 hrs

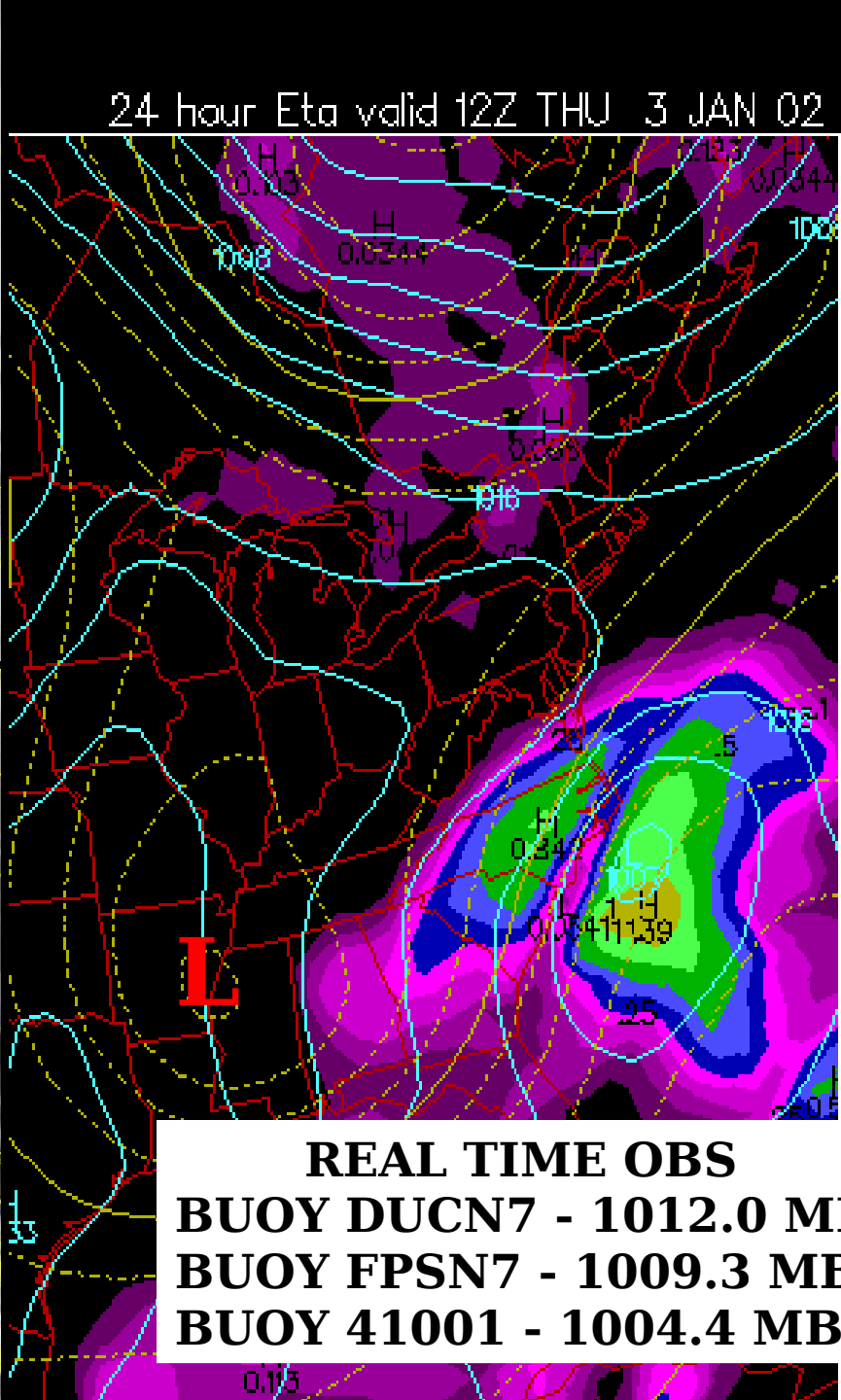
Max snowfall near coldest 200mb temp downstream from 200mb warm pocket

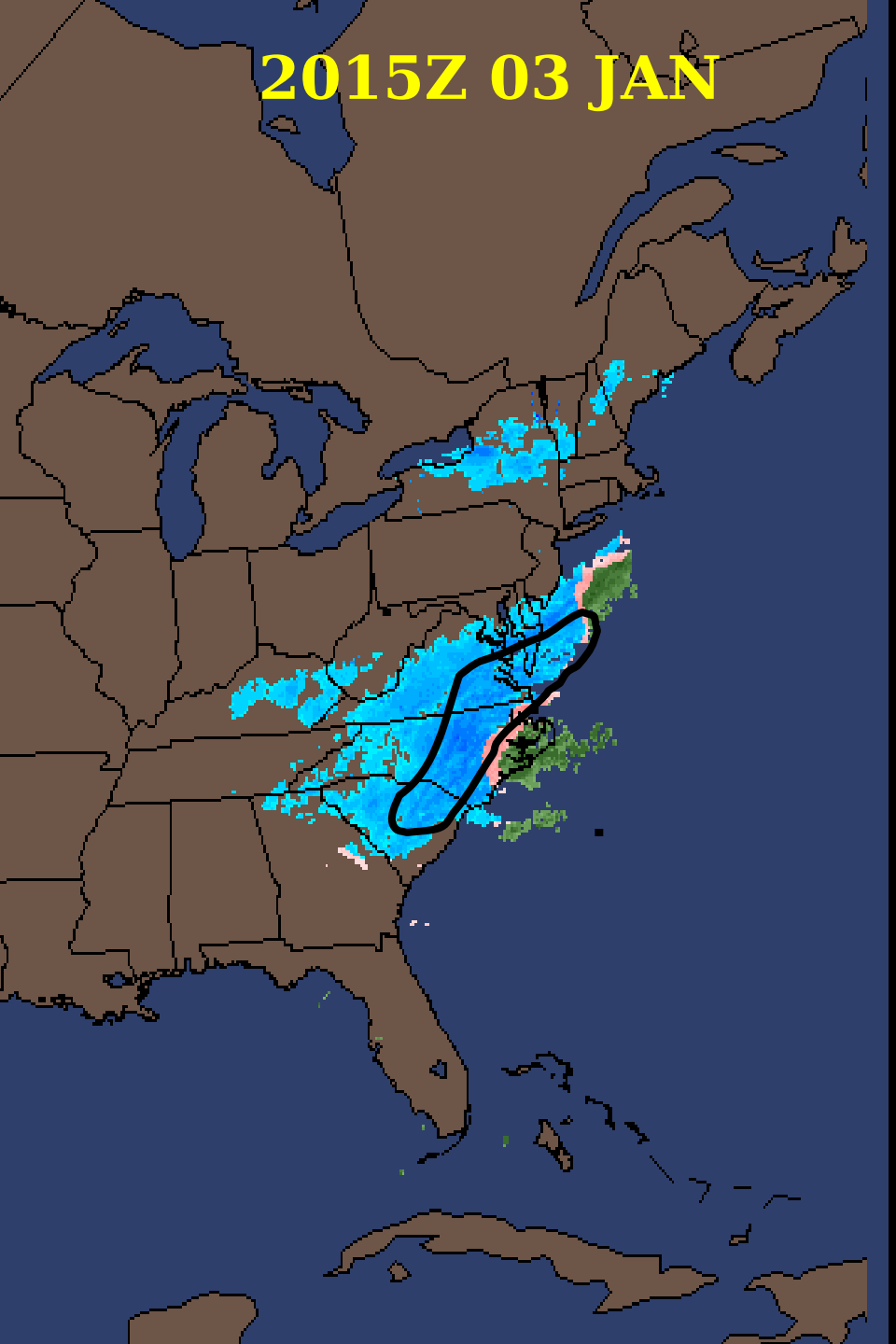
Area parallel to 200mb contours

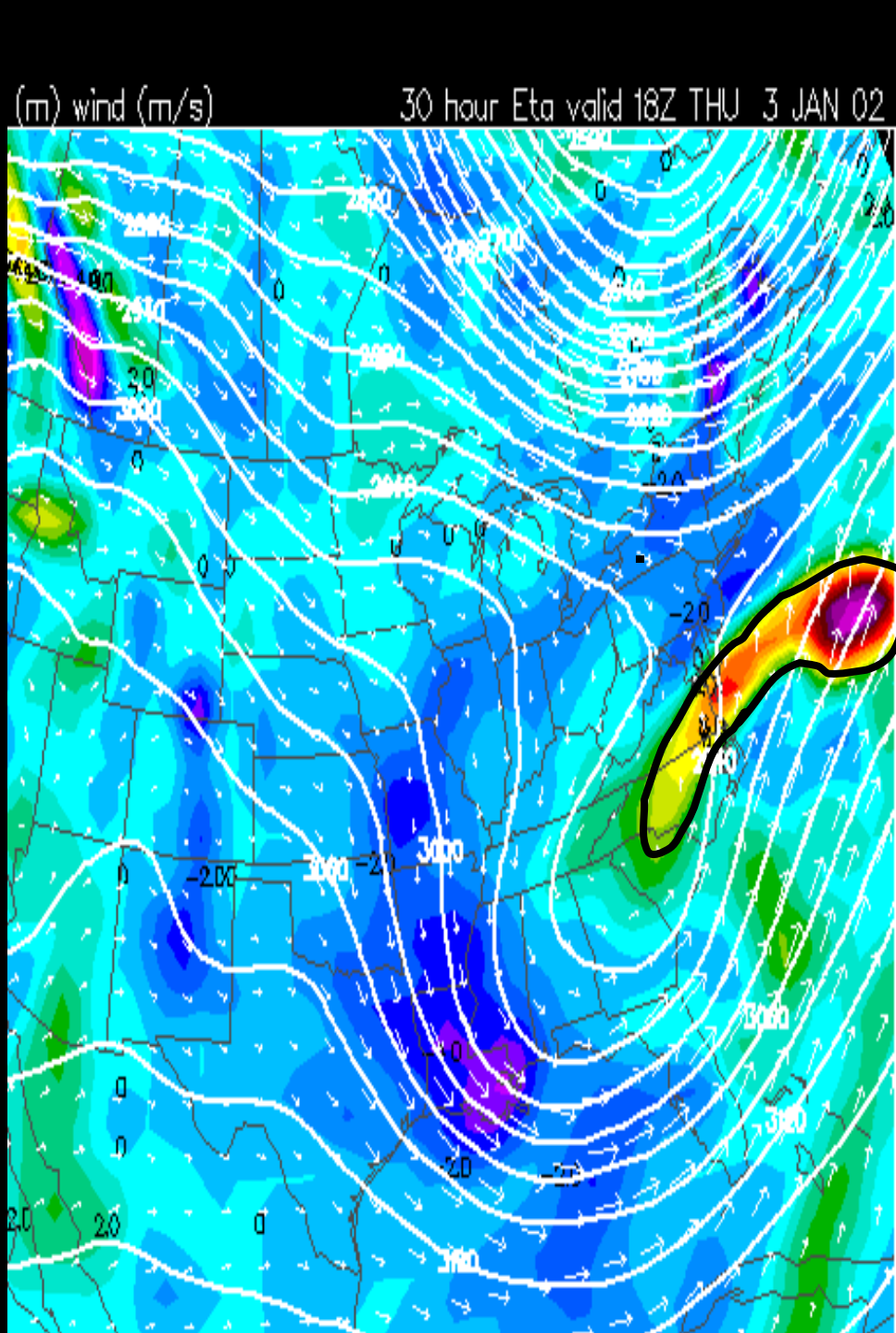

1100Z 03 JAN
MDT-HVY
SNOW AMTS
W/ SFC LOW
24 hour Eta valid 12Z THU 3 JAN 02
Forecast 12 inch axis
Raleigh - Newport News
MDT-HVY
SNOW AMTS
W/ SFC LOW

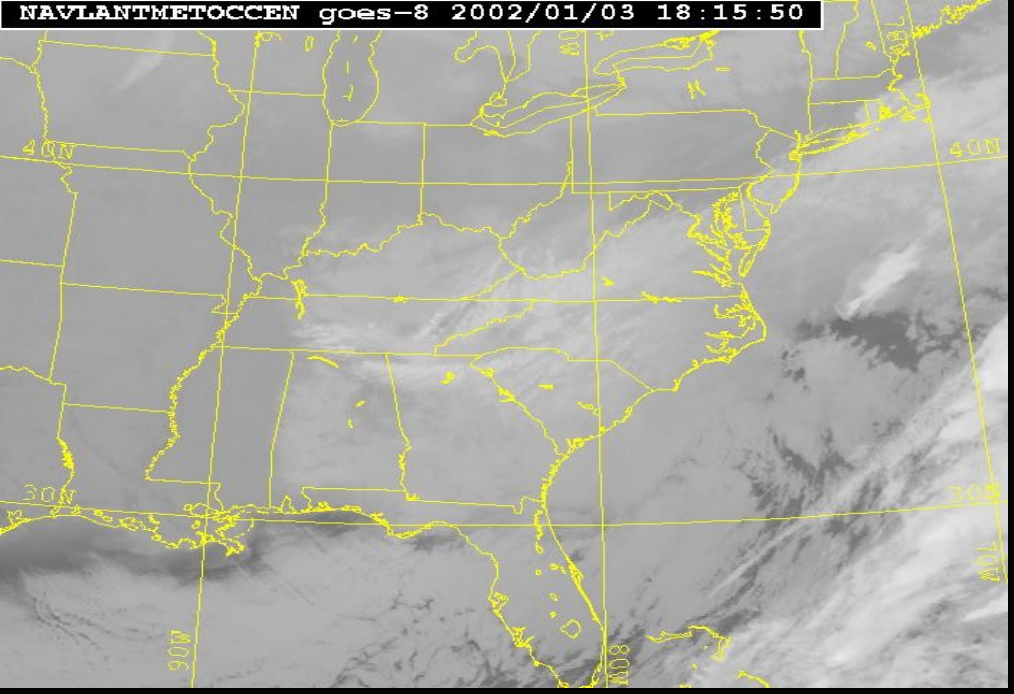

NAVLANTMETOCCEN goes-8 2002/01/03 12:15:47
UPSTREAM - UL LOW

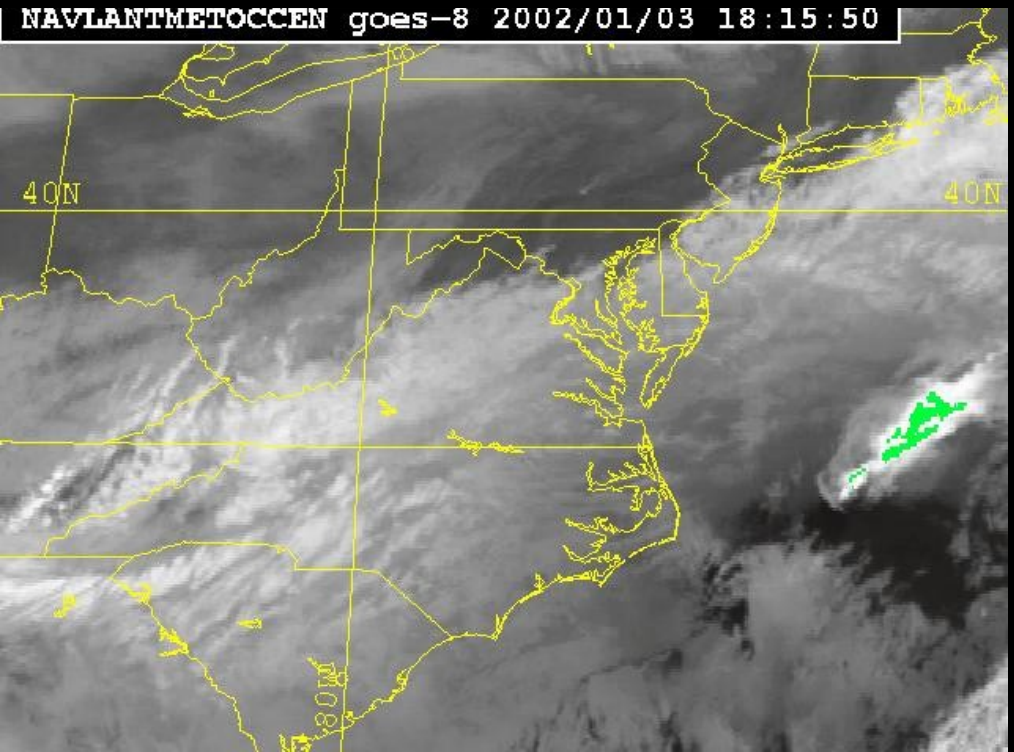

NAVLANTMETOCCEN goes-8 2002/01/03 12:15:47
L
UPSTREAM - UL LOW

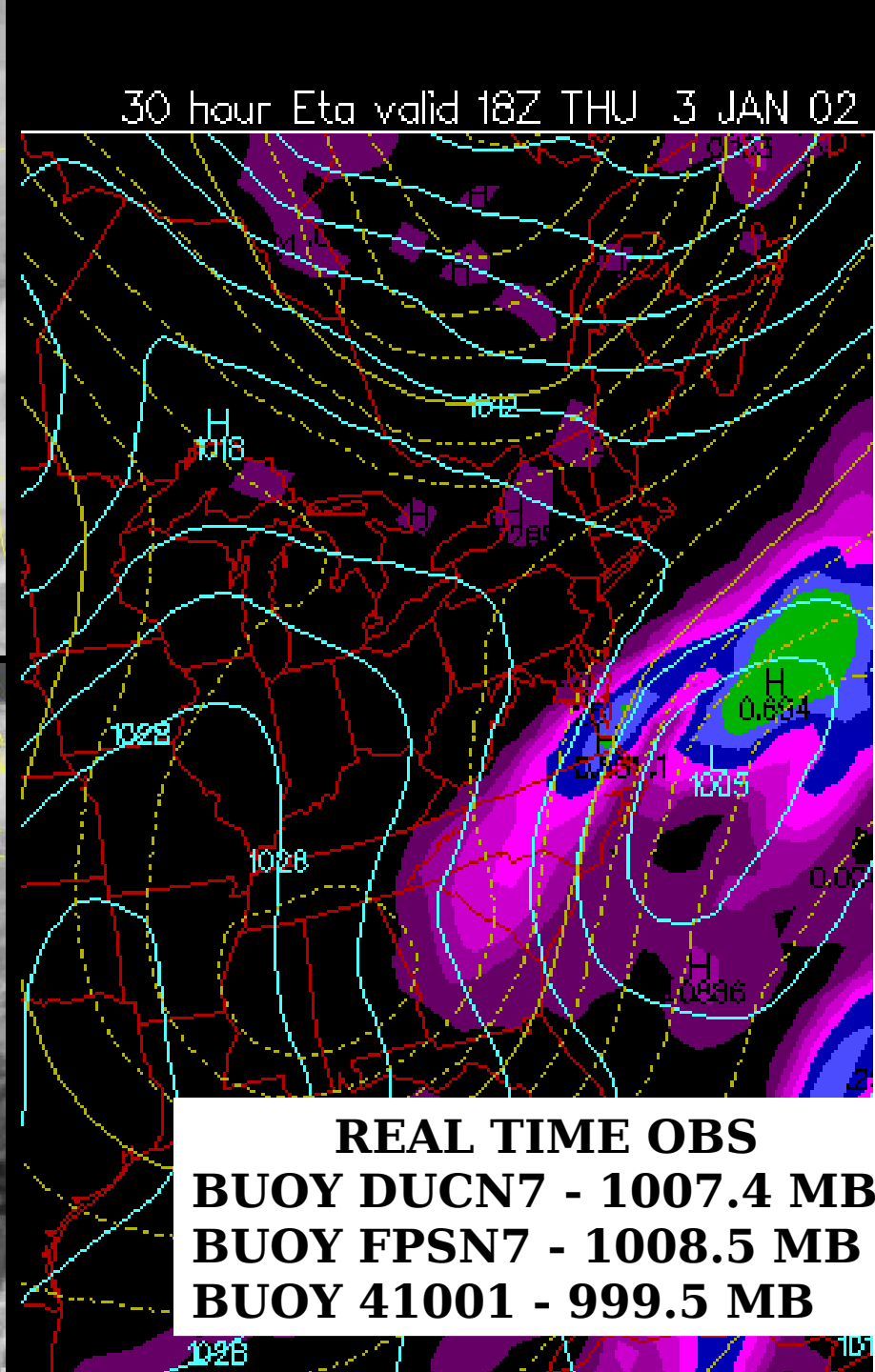

24 hour Eta valid 12Z THU 3 JAN 02
L
REAL TIME OBS
BUOY DUCN7 - 1012.0 M
BUOY FPSN7 - 1009.3 MB
BUOY 41001 - 1004.4 MB


2015Z 03 JAN

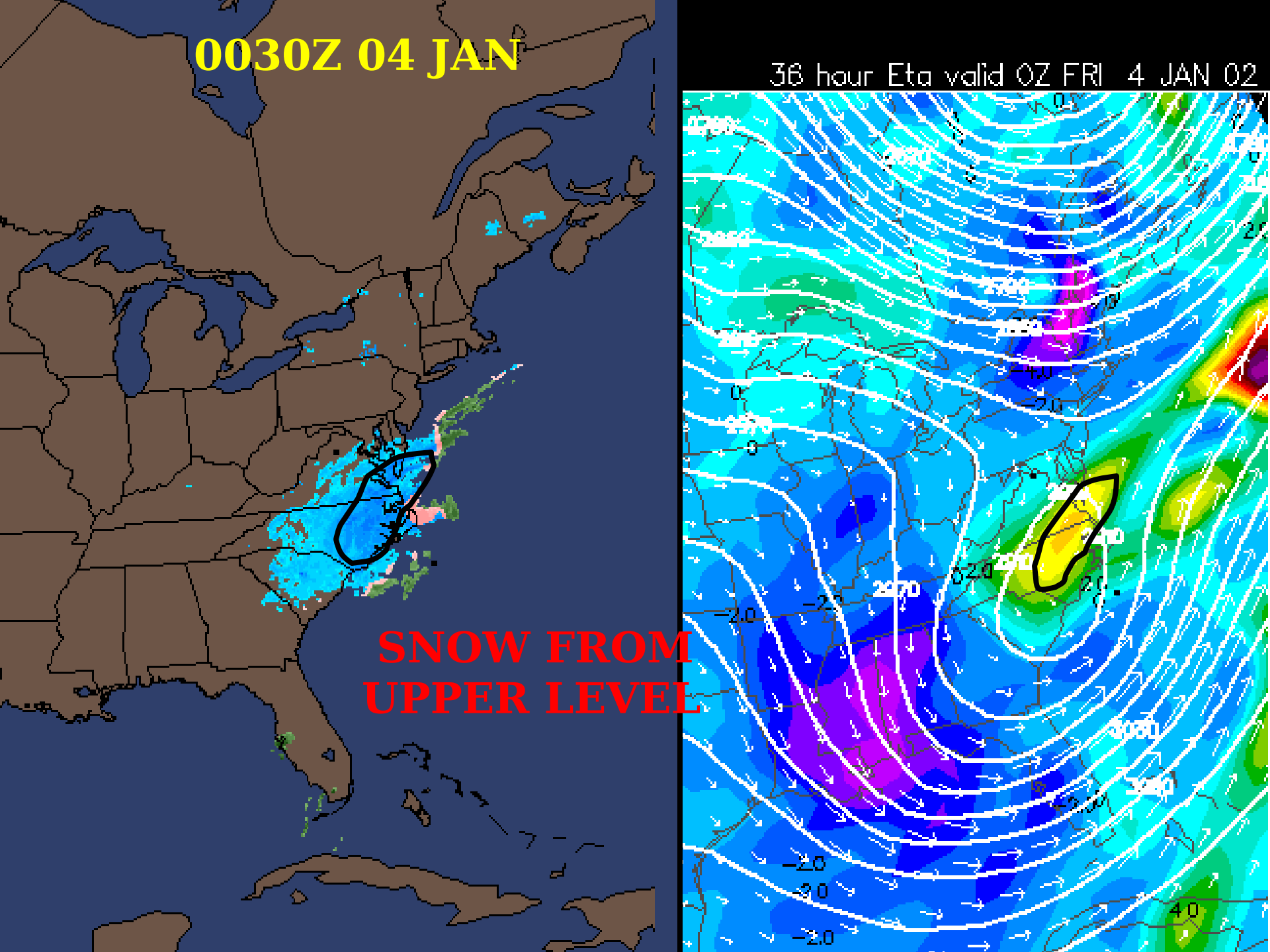

(m) wind (m/s)
30 hour Eta valid 18Z THU 3 JAN 02

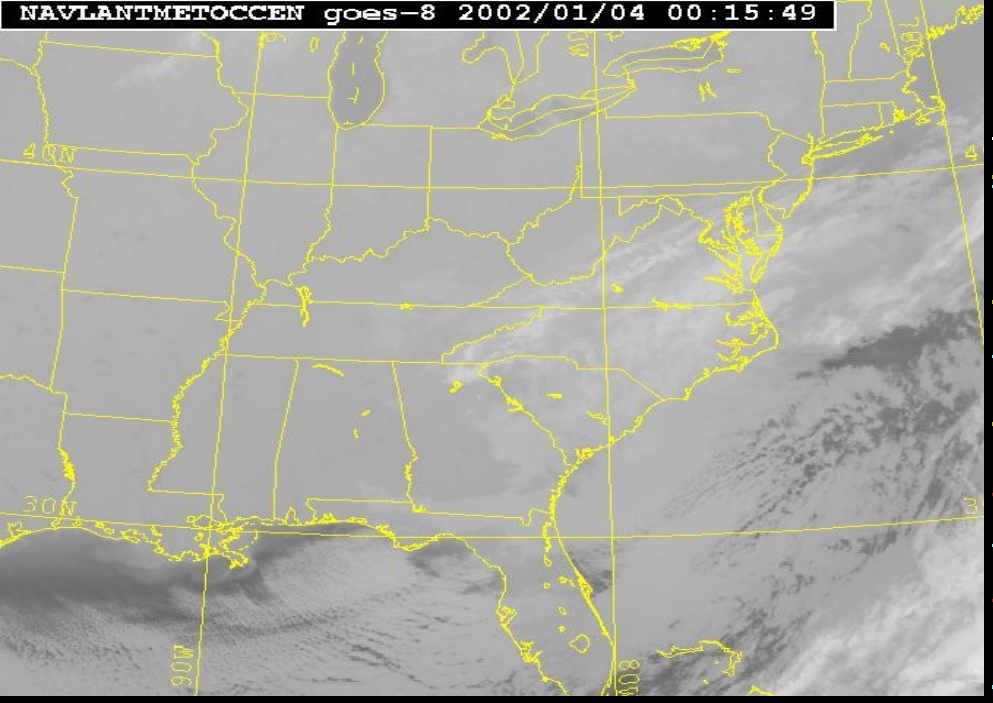


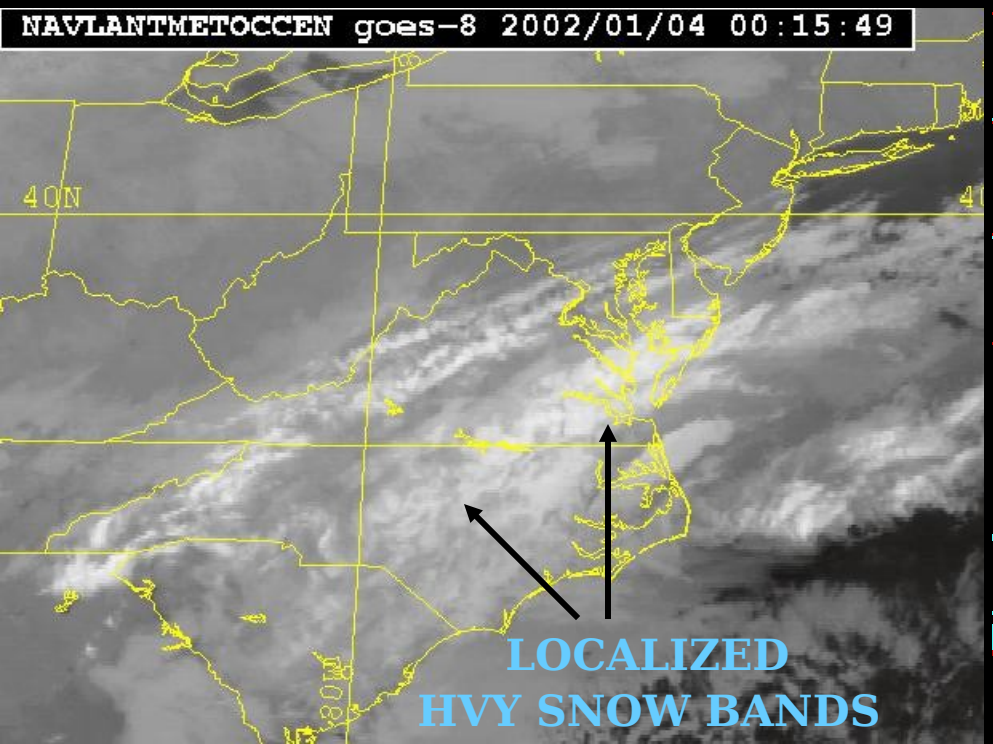


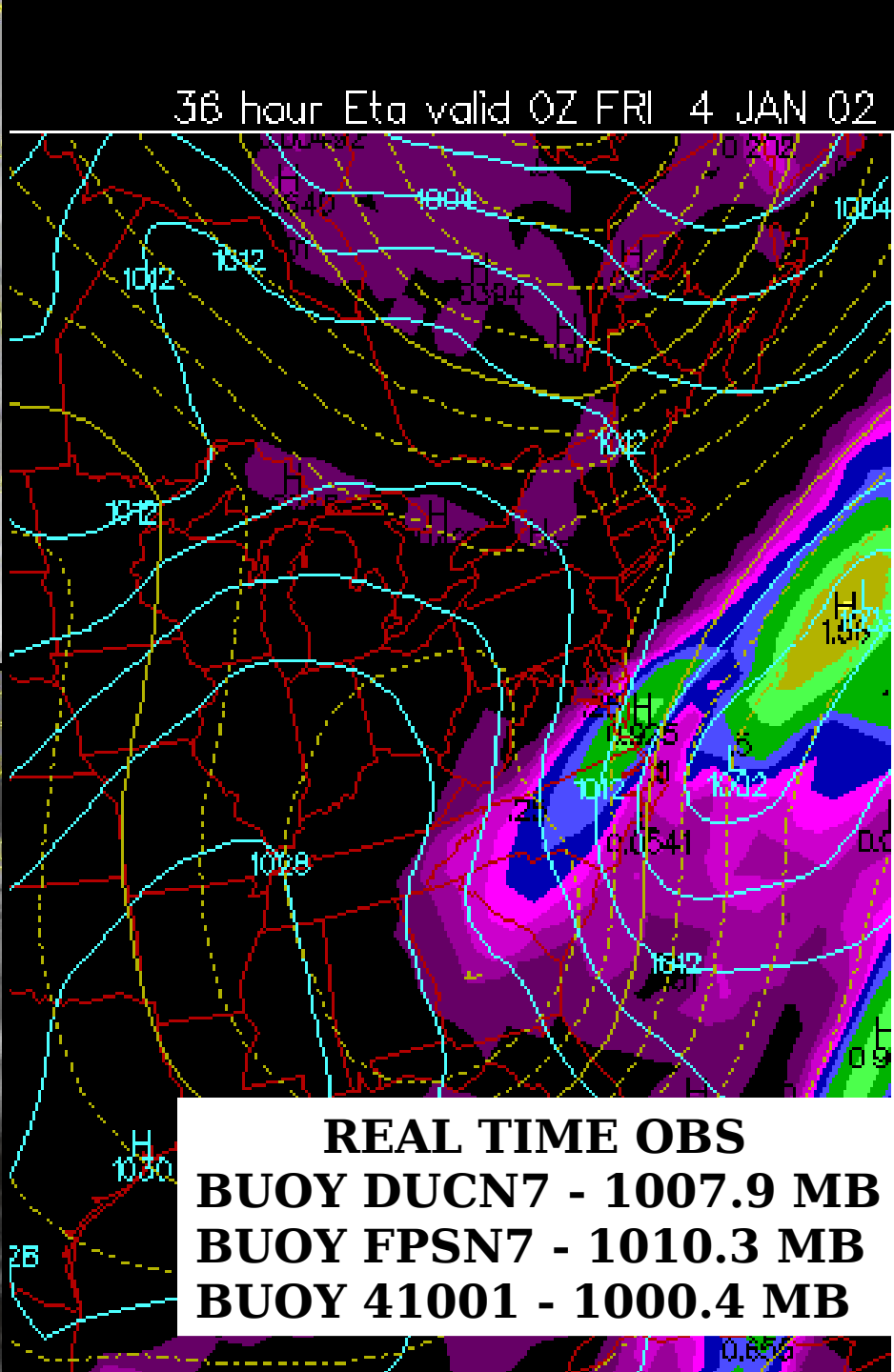


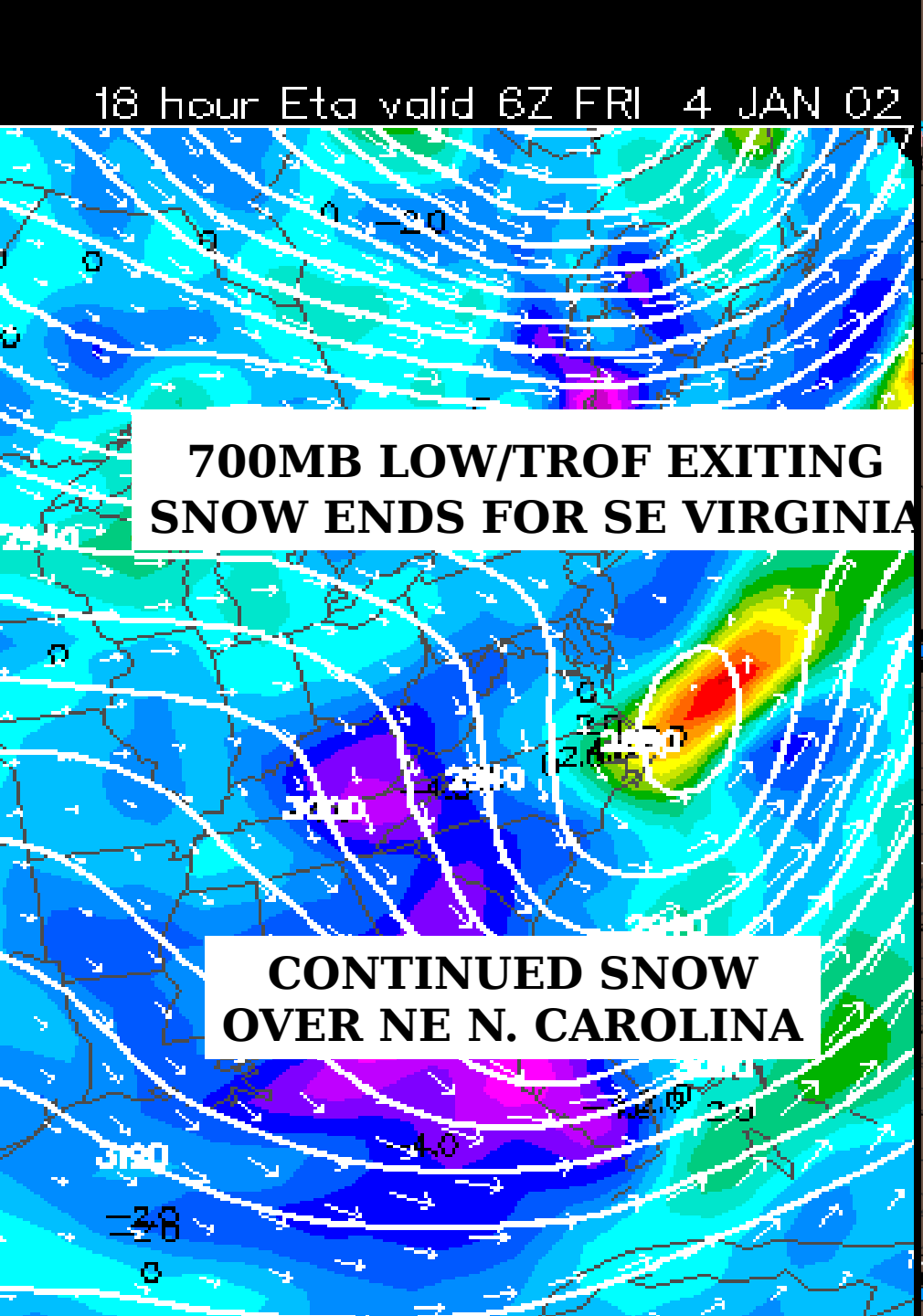
REAL TIME OBS
BUOY DUCN7 - 1007.4 MB
BUOY FPSN7 - 1008.5 MB
BUOY 41001 - 999.5 MB

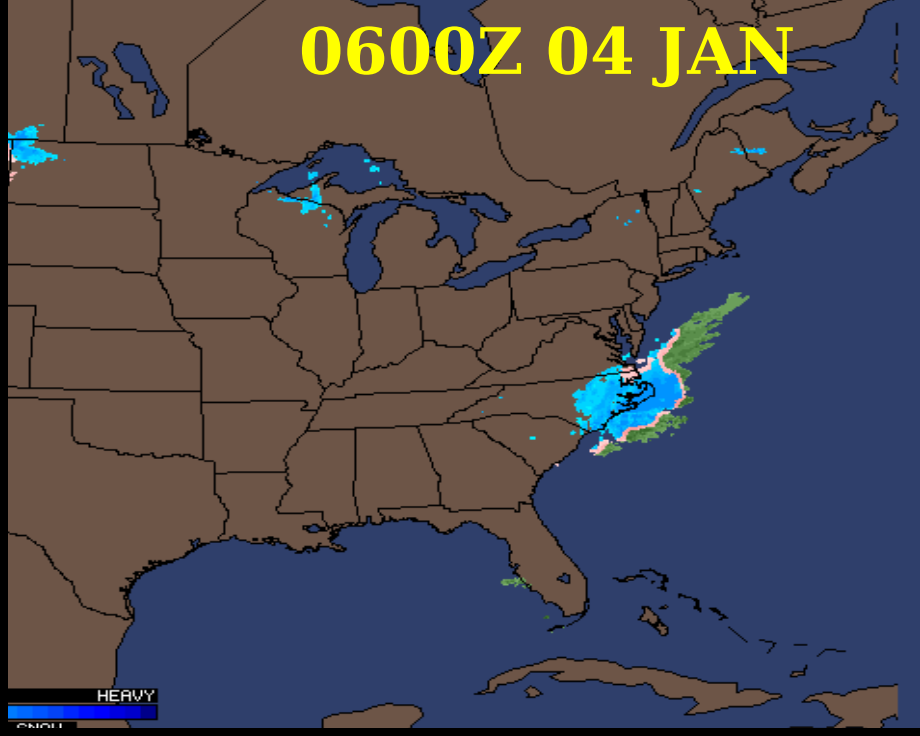

0030Z 04 JAN
36 hour Eta valid 0Z FRI 4 JAN 02
SNOW FROM
UPPER LEVEL

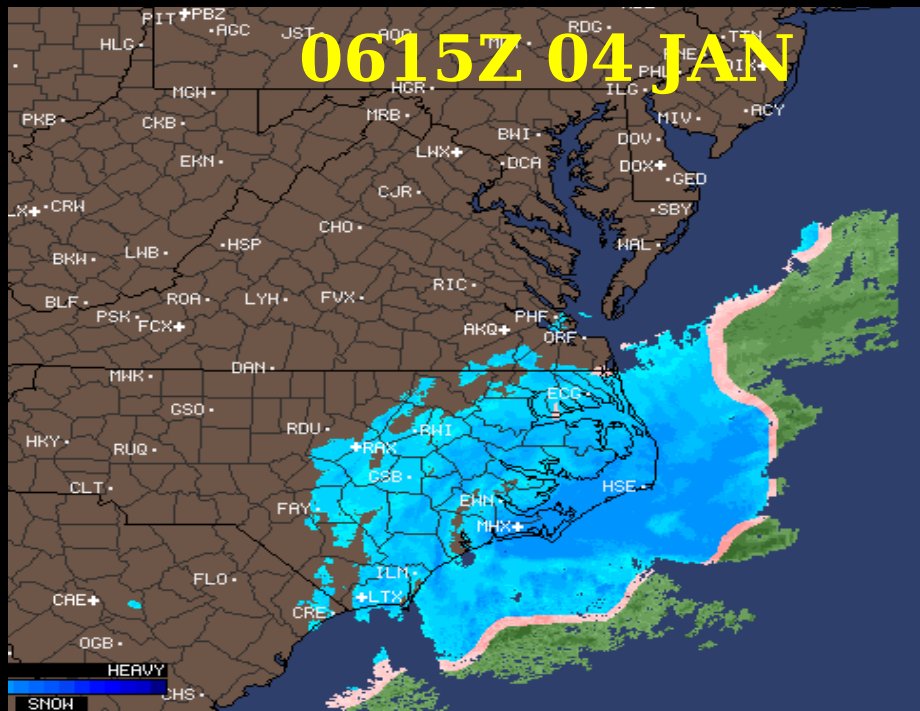

NAVLANTMETOCCEN goes-8 2002/01/04 00:15:49
40N
30N

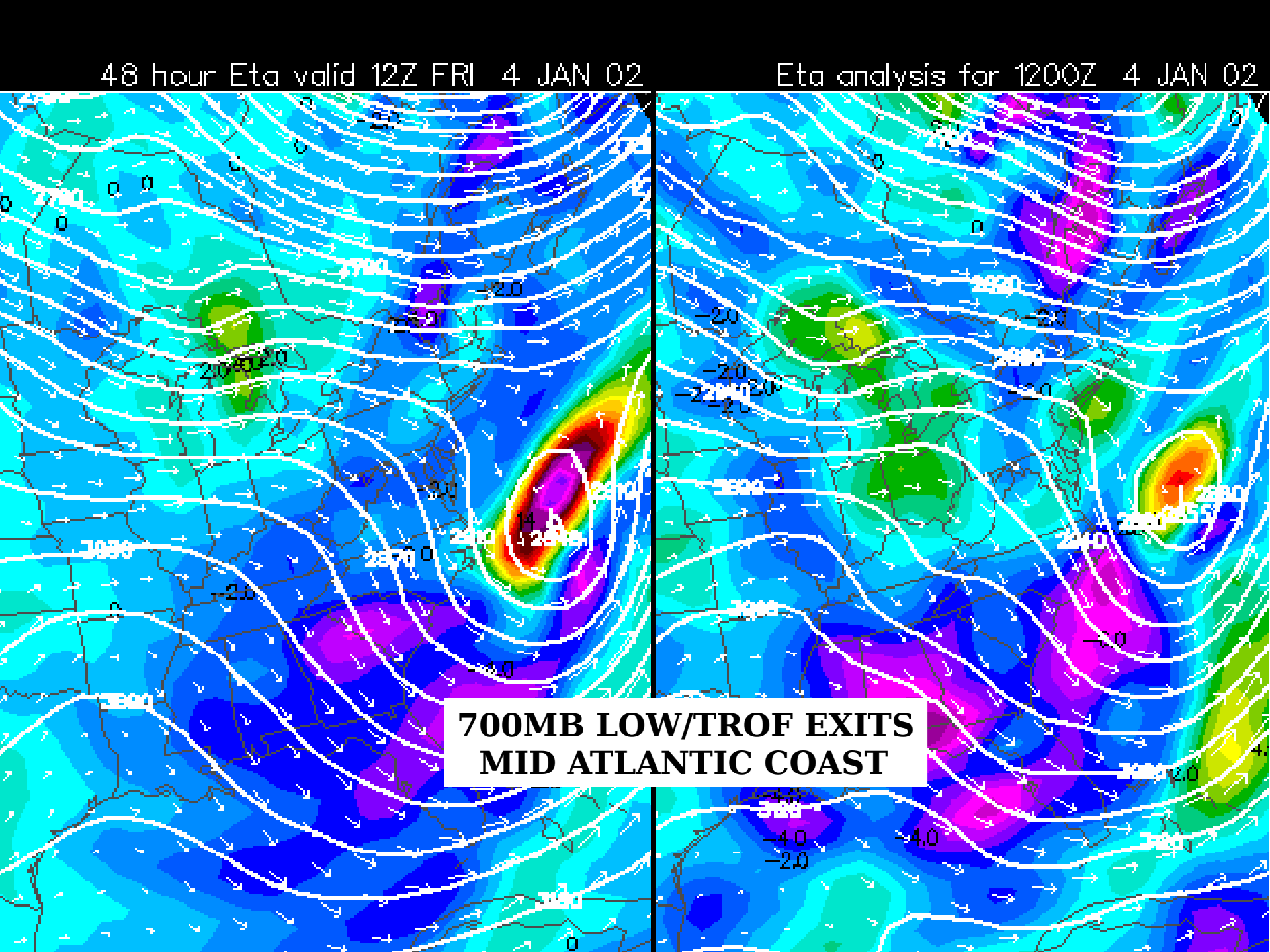

NAVLANTMETOCCEN goes-8 2002/01/04 00:15:49
40N
LOCALIZED
HVY SNOW BANDS

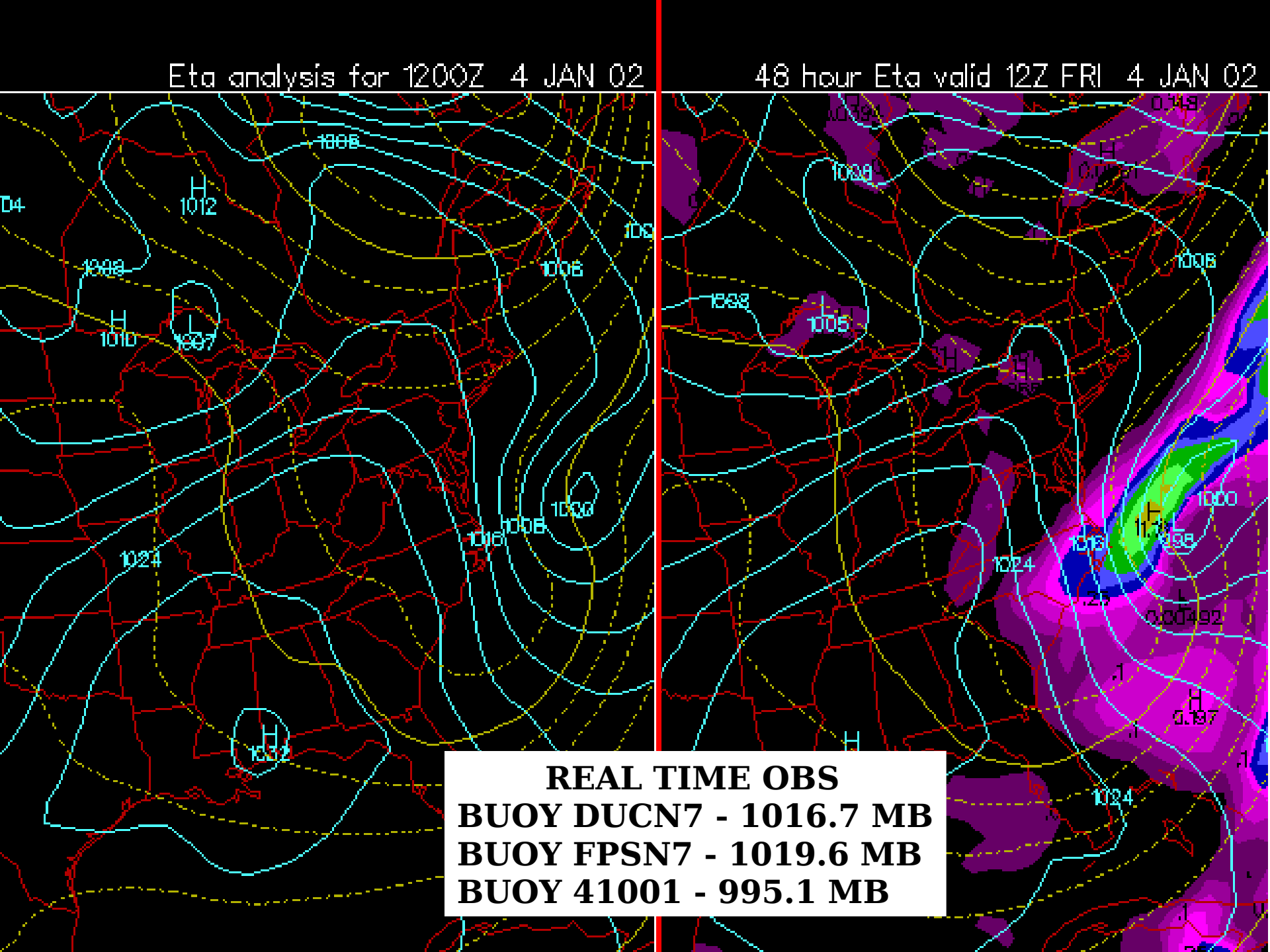

36 hour Eta valid 0Z FRI 4 JAN 02
1004
1012
1028
1030
1042
REAL TIME OBS
BUOY DUCN7 - 1007.9 MB
BUOY FPSN7 - 1010.3 MB
BUOY 41001 - 1000.4 MB


18 hour Eta valid 6Z FRI 4 JAN 02
700MB LOW/TROF EXITING
SNOW ENDS FOR SE VIRGINIA
CONTINUED SNOW
OVER NE N. CAROLINA


0600Z 04 JAN
HEAVY


0615Z 04 JAN
HEAVY
SNOW


48 hour Eta valid 12Z FRI 4 JAN 02
Eta analysis for 1200Z 4 JAN 02
700MB LOW/TROF EXITS
MID ATLANTIC COAST


Eta analysis for 1200Z 4 JAN 02
48 hour Eta valid 12Z FRI 4 JAN 02
REAL TIME OBS
BUOY DUCN7 - 1016.7 MB
BUOY FPSN7 - 1019.6 MB
BUOY 41001 - 995.1 MB

SNOW FORECAST VERIFICATION

- 5 inches along immediate coast
- 8 inches inland (Suffolk)
- 12 inch axis from Raleigh to Newport News

- Forecast Snow begin: by 03/0000L
- Real Time OB snow began in local area: 02/2200L

- Forecast Snow end: by 04/0000L
- Real Time OB snow ended in local area: 03/2200L

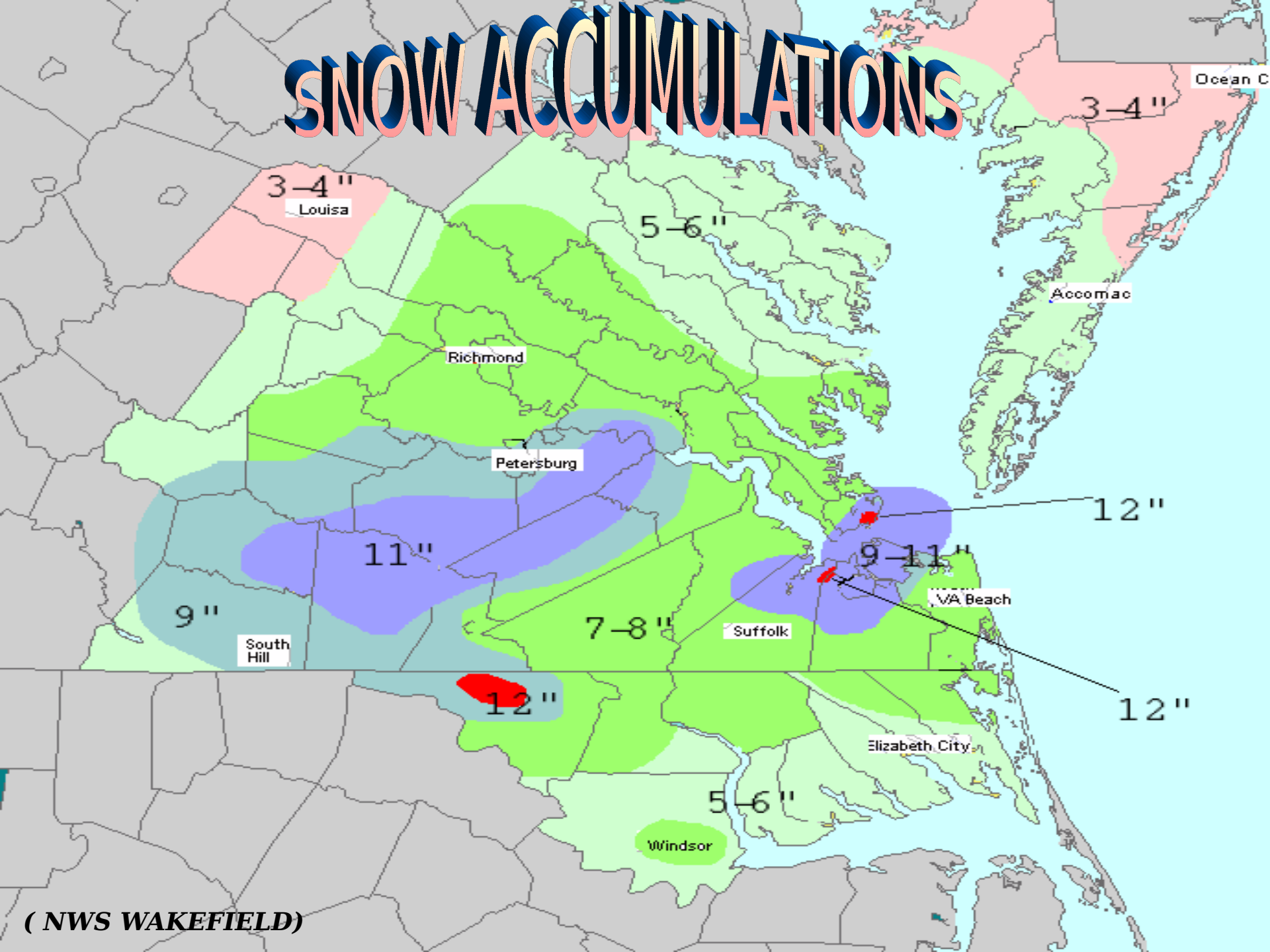
NAVLANTMETOCCEN
SPECIAL WINTER WEATHER ADVISORY

ISSUED SPECIAL WINTER WEATHER ADVISORY 02/1530Z JAN 2002

FORECAST
SNOW BEGINS/ENDS: BEGIN LATE MORNING 03 JAN / END MORNING 04 JA
AMOUNT: 1-3 INCHES HAMPTON ROADS AREA, 2-4 INCHES EXTREME SOU
TIER HAMPOTON ROADS

ISSUED AMMENDED SPECIAL WINTER WEATHER ADVISORY 03/0406Z JAN

FORECAST
SNOW BEGINS/ENDS: BEGIN 02/2200L JAN / END AFTER SUNSET 03 JAN
AMOUNT: 1-3 INCHES THROUGHOUT HAMPTON ROADS THROUGH SUNRIS
ADDITIONAL 3-5 INCHES THROUGH SUNSET 03 JAN


SNOW ACCUMULATIONS
3-4"
Louisa
5-6"
3-4"
Ocean C
Accomac
Richmond
Petersburg
12"
11"
9-11"
9"
South Hill
7-8"
Suffolk
VA Beach
12"
12"
Elizabeth City
5-6"
Windsor
(NWS WAKEFIELD)

SNOW ACCUMULATIONS

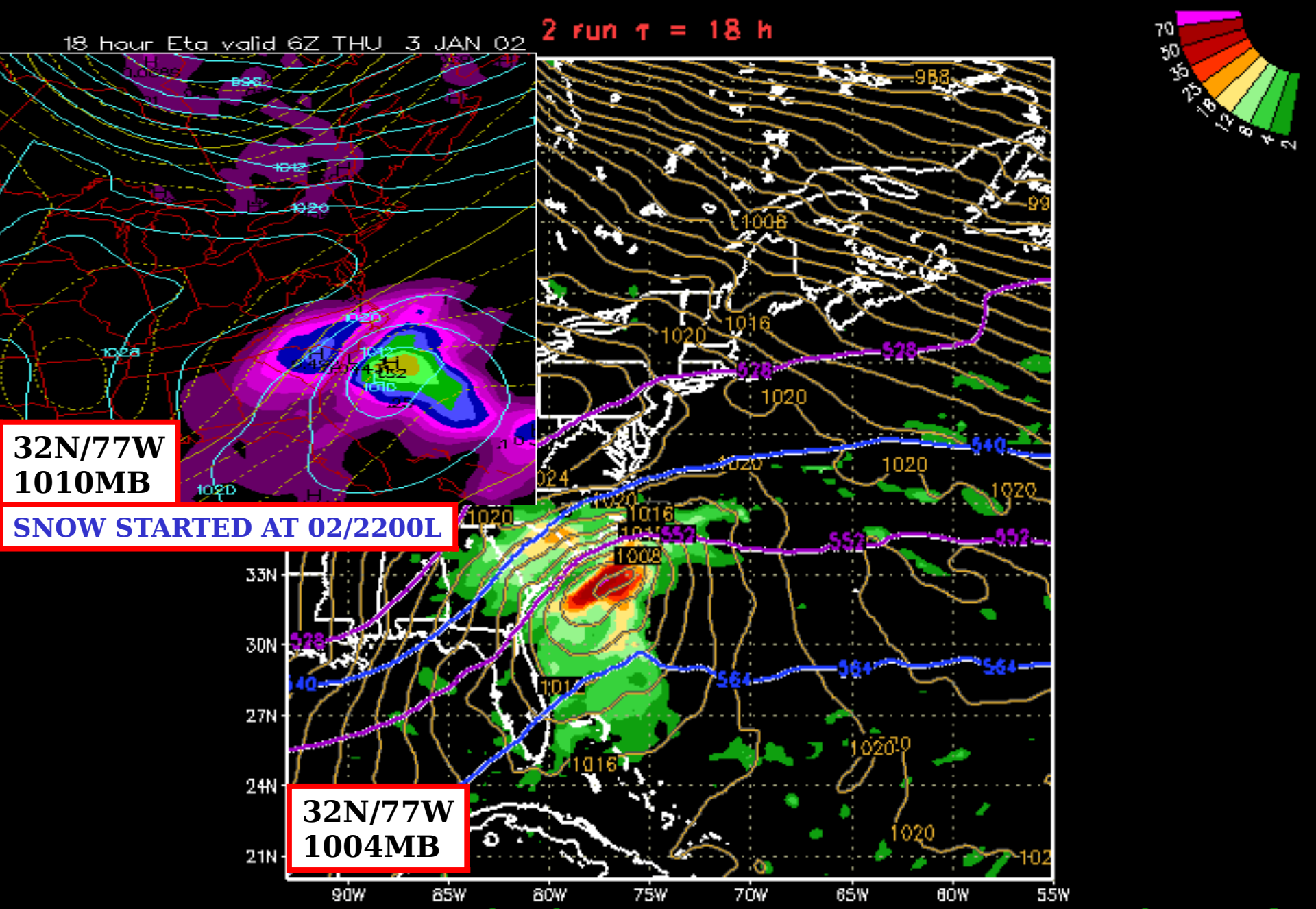
03/1800L

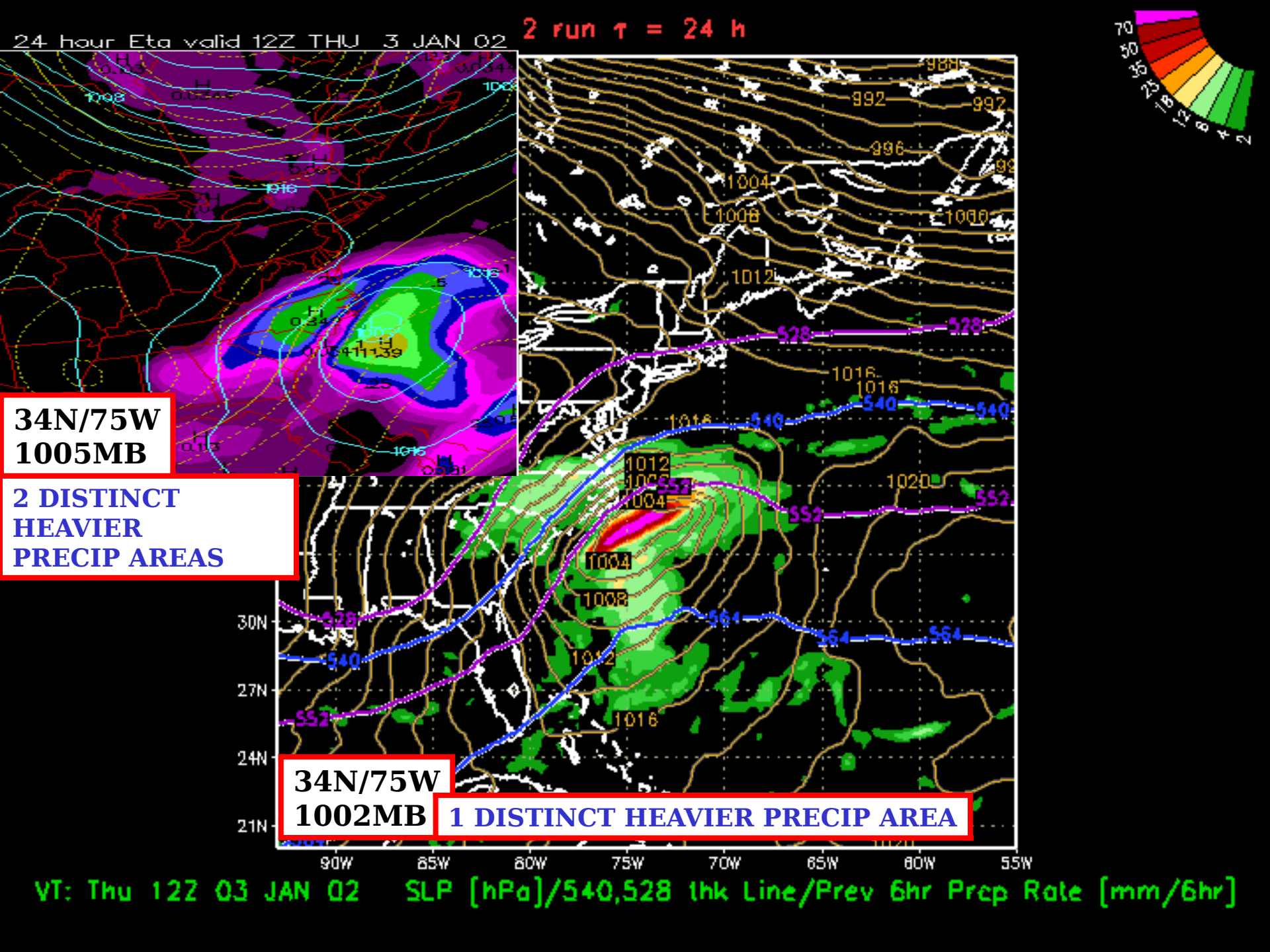
Williamsburg	**5.5**	
Hampton	**12.0**	
Isle of Wight	**9.0**	
Wakefield	**8.0**	
Franklin	**7.0**	
Norfolk Intl	**9.5**	
NAS Norfolk	**---**	**Total 10.0**
Portsmouth	**9.0**	
Suffolk	**8.0**	
Great Bridge	**6.0**	
VA Beach	**4.0-8.0**	
Elizabeth City N.C	**3.0**	
Raleigh N.C.	**10.8**	

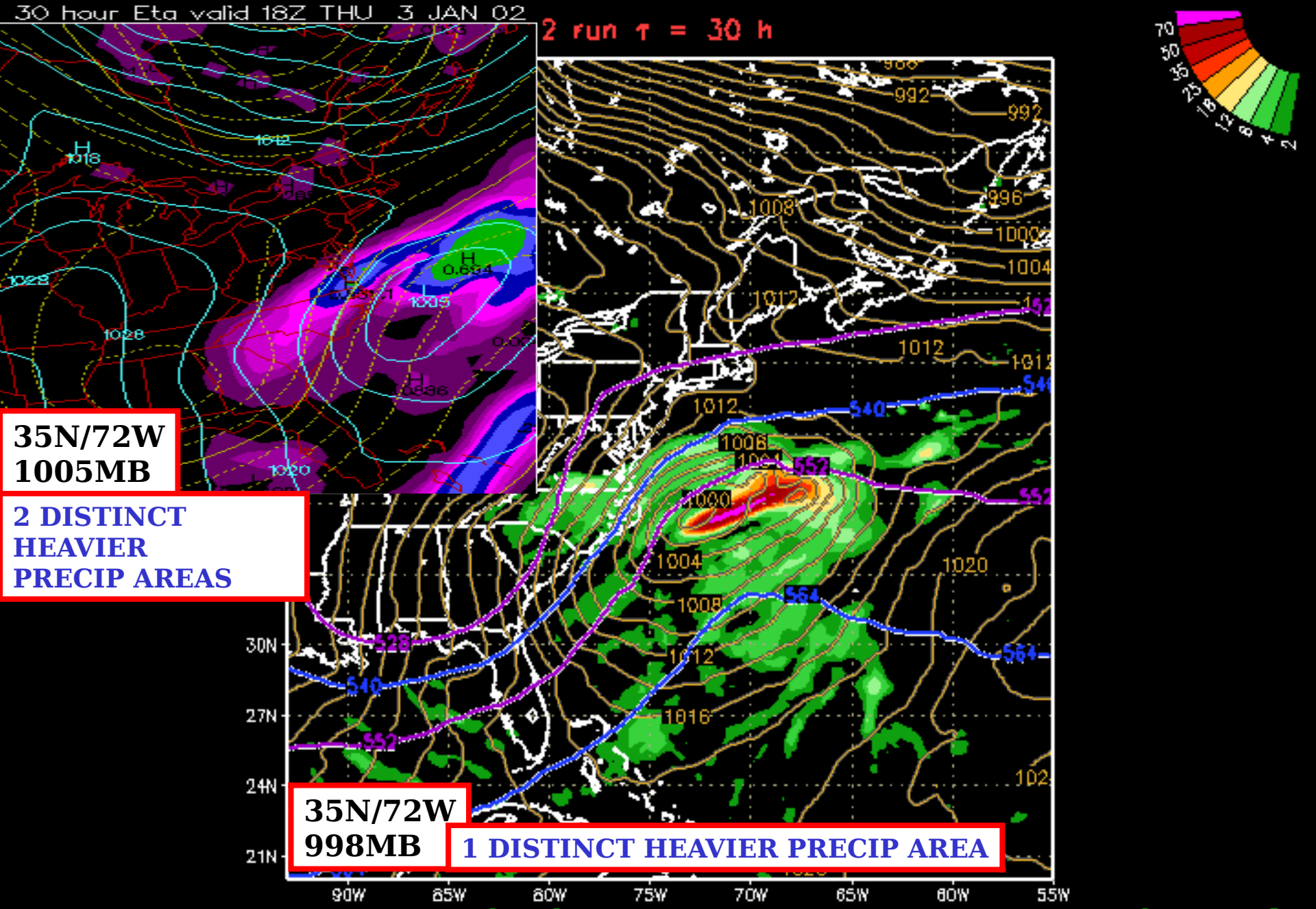
Total Accumulation: See graphic (previous page)

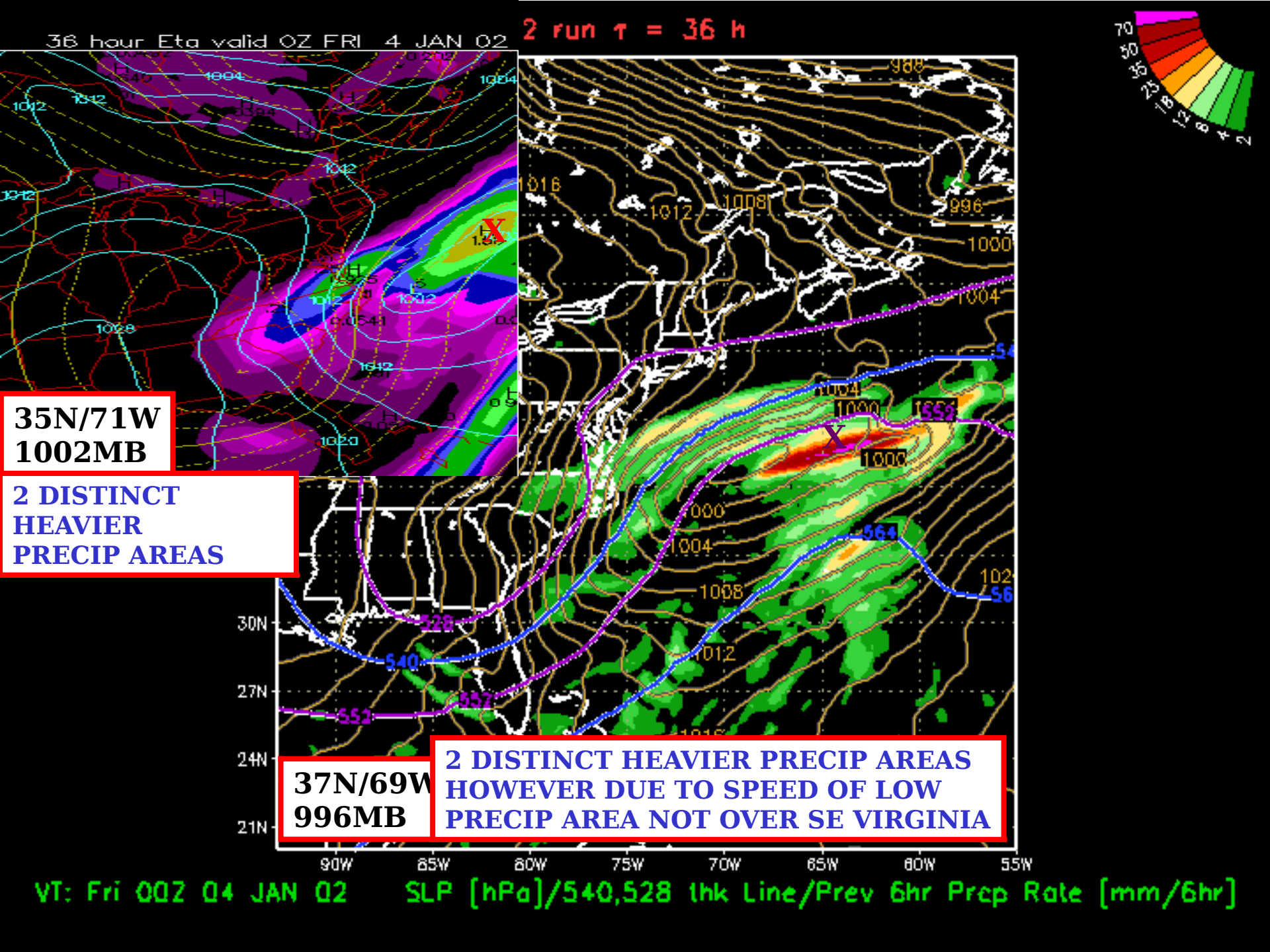
(NWS WAKEFIELD/WVEC 13)

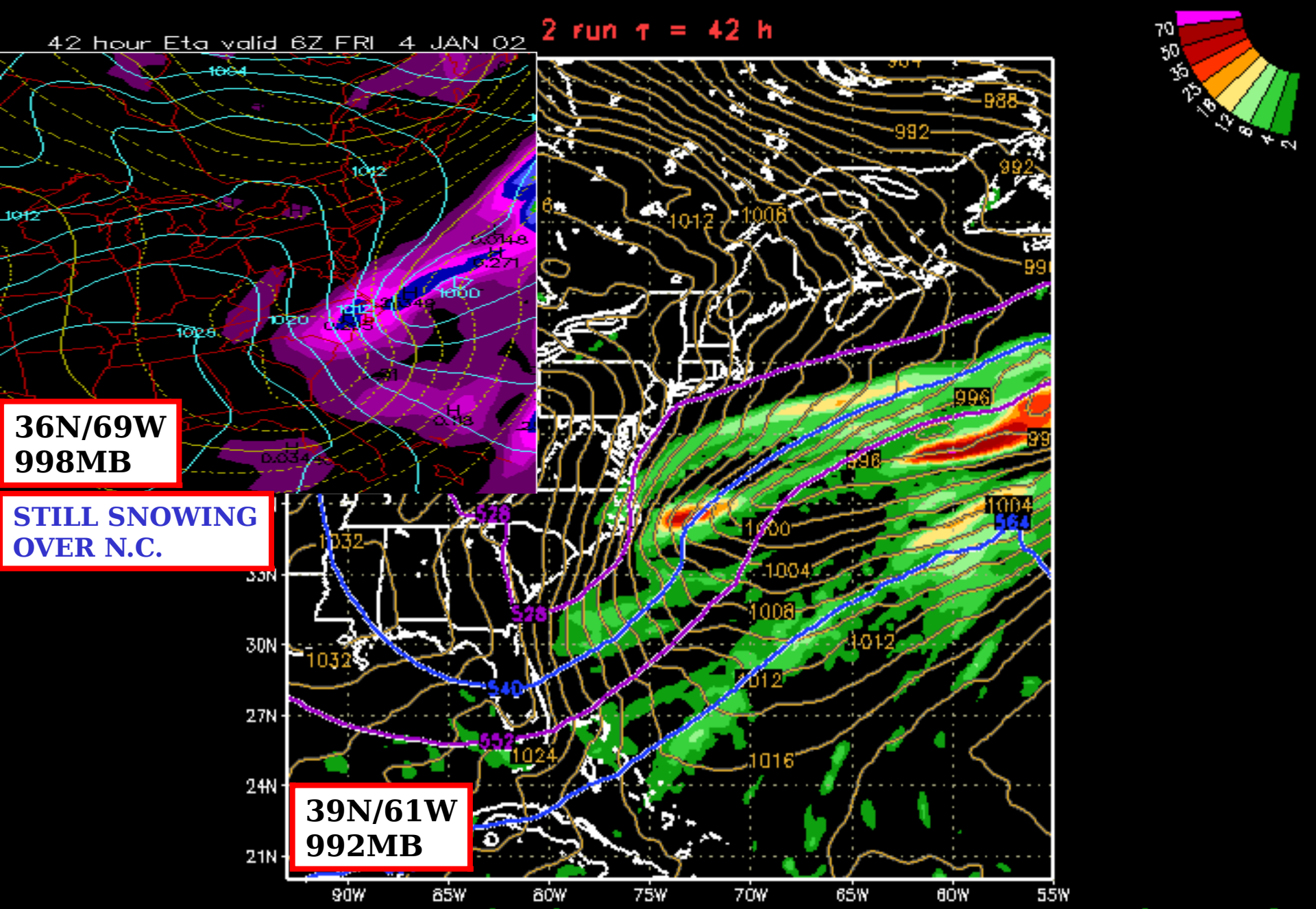
ETA vs COAMPS

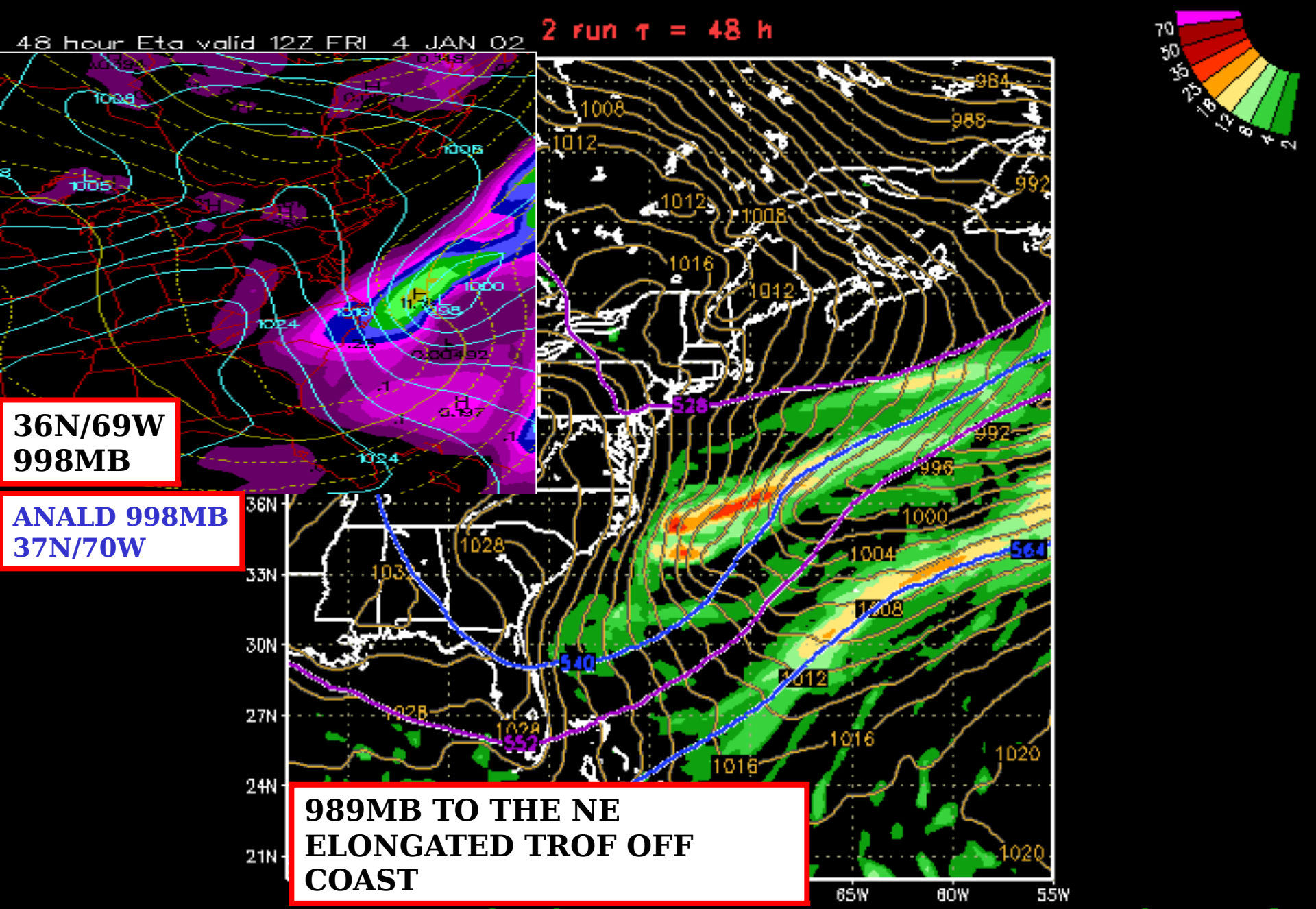

18 hour Eta valid 6Z THU 3 JAN 02
2 run τ = 18 h
32N/77W
1010MB
SNOW STARTED AT 02/2200L
32N/77W
1004MB
33N
30N
27N
24N
21N
90W
85W
80W
75W
70W
65W
60W
55W
VT: Thu 06Z 03 JAN 02 SLP [hPa]/540,528 thk Line/Prev 6hr Prcp Rate [mm/6hr]


24 hour Eta valid 12Z THU 3 JAN 02
2 run τ = 24 h
34N/75W
1005MB
2 DISTINCT
HEAVIER
PRECIP AREAS
34N/75W
1002MB
1 DISTINCT HEAVIER PRECIP AREA
30N
27N
24N
21N
90W
85W
80W
75W
70W
65W
60W
55W
VT: Thu 12Z 03 JAN 02 SLP [hPa]/540,528 thk Line/Prev 6hr Prcp Rate [mm/6hr]


30 hour Eta valid 18Z THU 3 JAN 02
2 run τ = 30 h
35N/72W
1005MB
2 DISTINCT
HEAVIER
PRECIP AREAS
35N/72W
998MB
1 DISTINCT HEAVIER PRECIP AREA
30N
27N
24N
21N
90W
85W
80W
75W
70W
65W
60W
55W
VT: Thu 18Z 03 JAN 02 SLP [hPa]/540,528 thk Line/Prev 6hr Prcp Rate [mm/6hr]


36 hour Eta valid 0Z FRI 4 JAN 02
2 run τ = 36 h
70
50
35
25
18
12
8
4
2
35N/71W
1002MB
2 DISTINCT
HEAVIER
PRECIP AREAS
37N/69W
996MB
2 DISTINCT HEAVIER PRECIP AREAS
HOWEVER DUE TO SPEED OF LOW
PRECIP AREA NOT OVER SE VIRGINIA
30N
27N
24N
21N
90W
85W
80W
75W
70W
65W
60W
55W
VT: Fri 00Z 04 JAN 02
SLP [hPa]/540,528 thk Line/Prev 6hr Prcp Rate [mm/6hr]


42 hour Eta valid 6Z FRI 4 JAN 02
2 run τ = 42 h
36N/69W
998MB
STILL SNOWING
OVER N.C.
39N/61W
992MB
VT: Fri 06Z 04 JAN 02
SLP [hPa]/540,528 thk Line/Prev 6hr Prcp Rate [mm/6hr]


48 hour Eta valid 12Z FRI 4 JAN 02
2 run τ = 48 h
36N/69W
998MB
ANALD 998MB
37N/70W
989MB TO THE NE
ELONGATED TROF OFF
COAST
VT: Fri 12Z 04 JAN 02 SLP [hPa]/540,528 thk Line/Prev 6hr Prcp Rate [mm/6hr]